SEARCH REQUEST FORM

Scientific and Technical Information Center

	Requester's Full Name: Jeffe	, E. Russel	Examiner # : 62785 Date: 2-24-2005	
	Art Unit: 1654 Phone	Number 38/571-272-09	69 Serial Number: 10/758,717	
	Mail Box and Bldg/Room Location REM 3C18 (mailba), 3D19 (n: Res	ults Format Preferred (circle) PAPER DISK E-MAIL	
	If more than one search is subn		ze searches in order of need.	
	Include the elected species or structures, utility of the invention. Define any terms known. Picase attach a copy of the cover	keywords, synonyms, acro s that may have a special m sheet, pertinent claims, an		
	Title of invention: Metal of Mad	ifing The Release	Profile Of Sutained Release Compositions M. Riley	
	Inventors (please provide fult names):	J. Oasch,	M. Riley	
	·		<i></i>	
	Earliest Priority Filing Date: 1-1	6-2064		
	For Sequence Searches Only Please inch appropriete serial number.	ide all pertinent information	(parent, child, divisional, or issued patent numbers) along with the	
	Ple-se search the follows	. Stuctures	•	
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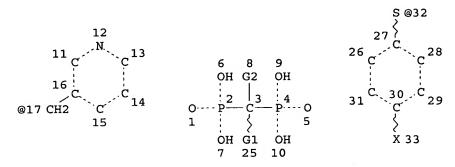
	STAFF USE ONLY	Type of Search	Vendors and cost where applicable	
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	Die Searcher Picked Up:	Bibliographic	Dr.Link	
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	Searcher Prega - Review Times	Fulliest	Sequence Systems	
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	Online Time	Other	Other (specify)	
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L1 STR

Russell 10/758717

CH2-CH2-NH2 @22 23 24



CH2-CH2-CH2-NH2 @18 19 20 21

VAR G1=17/22/18/ME/32 VAR G2=H/OH NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 33

STEREO ATTRIBUTES: NONE

L3 595 SEA FILE=REGISTRY SSS FUL L1

100.0% PROCESSED 5922 ITERATIONS

SEARCH TIME: 00.00.01

595 ANSWERS

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 164.34 164.55

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 14:18:26 ON 25 MAR 2005

FILE 'BIOSIS' ENTERED AT 14:18:26 ON 25 MAR 2005 Copyright (c) 2005 The Thomson Corporation

FILE 'EMBASE' ENTERED AT 14:18:26 ON 25 MAR 2005 COPYRIGHT (C) 2005 Elsevier Inc. All rights reserved.

FILE 'HCAPLUS' ENTERED AT 14:18:26 ON 25 MAR 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

L4 3749 FILE MEDLINE L5 1875 FILE BIOSIS

Searched by: Mary Hale 571-272-2507 REM 1D86

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9510 FILE EMBASE
L6
           6759 FILE HCAPLUS
L7
TOTAL FOR ALL FILES
          21893 L3
=> s (sustain2 or timed_or control?)(4a)releas2_or polymef3 carrier3 or poly
lactide co glycolide or polygalacrin 910 or glycolic lactic acid polyester) UNMATCHED FIGHT DARENTHESIS 'POLYESTER' The number of right parentheses in a query must be equal to the
number of left parentheses.
=> s (sustain? or timed or control?) (4a) releas? or polymer? carrier? or poly
lactide co glycolide or polygalactin 910 or glycolic lactic acid polyester
          17682 FILE MEDLINE
L9
          23509 FILE BIOSIS
L10
          29691 FILE EMBASE
L11
          46623 FILE HCAPLUS
L12
TOTAL FOR ALL FILES
         117505 (SUSTAIN? OR TIMED OR CONTROL?) (4A) RELEAS? OR POLYMER? CARRIER?
T-13
                  OR POLY LACTIDE CO GLYCOLIDE OR POLYGALACTIN 910 OR GLYCOLIC
                 LACTIC ACID POLYESTER
=> s 18 and 113
              8 FILE MEDLINE
L14
              1 FILE BIOSIS
L15
             40 FILE EMBASE
L16
             72 FILE HCAPLUS
L17
TOTAL FOR ALL FILES
           121 L8 AND L13
L18
=> s l18 and (pharm? or compos?)
              2 FILE MEDLINE
L19
              1 FILE BIOSIS
L20
             30 FILE EMBASE
L21
             51 FILE HCAPLUS
L22
TOTAL FOR ALL FILES
             84 L18 AND (PHARM? OR COMPOS?)
L23
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79 DUP REM L23 (5 DUPLICATES REMOVED)

=> d 1-79 ibib abs hitstr;s l8 and (dasch j?/au or riley m?/au)

=> dup rem 123

L24

PROCESSING COMPLETED FOR L23

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L24 ANSMER 1 OF 79 HCAPLUS COPYRIGHT 2005 ACS ON STN
ACCESSION NUMBER: 2005:216714 HCAPLUS
Compositions and methods for delivery of biologically active agents
Nhoo. Shui-mei; Boyd. Benjamin James; Whittaker, Darryl Vanatone; Davey, Gregory Andrew
DBL Australia Pty. Ltd., Australia PCT Int. Appl., 97 pp.
CODEN: PIXXD2
PAGENT
PRESSIONEE (S): PAGENTE AND AUSTRALIA PRIVATOR PRESSIONERS (S): PRESSIO
       DOCUMENT TYPE:
    FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                                     PATENT NO.
                                                                                                                                                                                                                                                     KIND
                                                                                                                                                                                                                                                                                                             DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DATE
MO 2005021046

M: AE, AG, AL,
CN, CO, CR,
GE, GH, GM,
LK, LR, LS,
NO, NZ, OM,
TJ, TM, TN,
RW: BW, GH, GM,
AZ, BY, KG,
EE, ES, FI,
SI, SK, TR,
SN, TD, TG
PRIORITY APPLN. INFO::
                                                                                                                                                                                                                                         A1 20050310 MO 2004-AU1181

AM, AT, AU, AZ, BA, BB, BG, BR, BM, BY, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, RR, HU, ID, IL, IN, IS, JP, KE, KG, KP, LT, LU, LV, MA, MD, MG, MK, MM, MM, KX, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, KE, LS, MM, MZ, NA, SD, SL, SZ, TZ, UG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, FR, GB, GR, HU, IE, IT, LU, MC, ML, PL, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GM,
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                                           AU 2003-904719 A 20030901
The present invention provides methods and compns. for the delivery of a biol. active agent to a biol. system. The compns. include the active agent and a lyotropic phase and release of the active agent to the biol. system is modified by the lyotropic phase. Thus, a formulation contained irinotecan and 2,3-dihydroxypropionic acid 3,7,11,15-tetramethyl hexadecyl ester and water. A sustained ralesse of the drug from the formulation was achieved. INDEXING IN PROGRESS 57448-89-1, Disodium pamidronate
RL: PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(compns. for delivery of biol. active agents)
57448-88-1 HCAPLUS
Phosphonic acid, (3-amino-1-hydroxypropylidene)bis-, disodium salt (9CI) (CA INDEX NAME)
                                                                           :
С— СН<sub>2</sub>— СН<sub>2</sub>— NН<sub>2</sub>
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L24 ANSWER 2 OF 79 HCAPLUS COPYRIGHT 2005 ACS ON STN ACCESSION NUMBER: 2005:119884 HCAPLUS DOCUMENT NUMBER: 142:204864 Hedical implants coated with both
                                                  142:204864
Medical implants coated with porous carbon surfaces
carrying drugs
Rathenow, Joerg: Asgari, Soheil; Ban, Andreas
Blue Membranes GmbH, Germany
Ger. Offen., 15 pp.
CODEN: GMXEK
 INVENTOR(S):
 PATENT ASSIGNEE (S):
 SOURCE:
 DOCUMENT TYPE:
                                                   Patent
  LANGUAGE:
                                                   German
 FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
           PATENT NO.
                                                   KIND
                                                              DATE
                                                                                        APPLICATION NO.
                                                                                                                                      DATE
                                                    A1
U1
                                                                20050210
                                                                                        DE 2003-10333099
                                                                                                                                      20030721
           DE 10333099
DE 202004009061
                         WO 2004105826
                                                                                        DE 2003-10324415
 PRIORITY APPLN. INFO.:
                                                                                                                                A1 20030528
                                                                                        DE 2003-10333098
                                                                                                                                A1 20030721
                                                                                        DE 2003-10333099
 AB The invention concerns a method for the preparation of medical implants with
           functionalized surfaces involving the steps: (a)preparation of medical
           ont that is at least partially coated with a carbon-containing layer; (b) activation of the carbon-containing layer by forming a pores on the
activation of the carbon-containing aspect, common surface, surface; (c) functionalization of the activated, carbon-containing surface. The carbon-containing layer is composed of pyrolytically prepared carbon, carbon deposited by CVD or PVD process, sputtered carbon, metal carbonitrides, metal oxycarbides or their combinations. The carbon-containing layers are activated by oxidation
 with air,
with air,
oxygen, dinitrogen oxide, and oxidizing acids, also at elevated
temperature A
reduction process can also be used for activation. Activated surfaces
           functionalized by loading one or more drugs, microorganisms or cells onto
the surface. Activated surfaces can be sealed in a CVD or CVI (chemical
vapor infiltration) process. The implants are prepared from carbon,
 carbon fibers, ceramics, glass, metals, alloys, artificial bone, stone,
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Artificial blood vessels, stents, coronary stents, peripheral stents,
Searched by: Mary Hale 571-272-2507 REM 1D86

105462-24-6 HCAPLUS Phosphonic acid, [1-hydroxy-2-(3-pyridinyl)ethylidene]bis- (9CI) (CA INDEX NAME)

ANSWER] OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued) glass, metals, alloys, artificial bone, stone, minerals; during heating they are transferred to their thermostable state. Artificial blood vessels, stents, coronary stents, peripheral stents, orthopedic implants, bone and joint prosthesis, artificial heart, heart valves, s.c., and i.m. implants can be coated. Other coating methods, e.g. dipping, spraying, printing can be applied. Several carbon layers with various porosity can be formed; biocompatible, biodegradable, non-biodegradable polymer layers can be placed on top of the carbon layers; drugs can be adsorbed onto the layers.

2809-21-4, Etidronic acid 40391-99-9 66376-36-1, Alendronic acid 89987-06-4, Tiludronic acid 105462-24-6
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (biocompatible coated medical implants with a carbon layer and method for preparation)

2809-21-4 HCAPLUS Phosphonic acid. (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)

40391-99-9 HCAPLUS Phosphonic acid, (3-amino-1-hydroxypropylidene)bis- (9CI) (CA INDEX

66376-36-1 HCAPLUS Phosphonic acid, (4-amino-1-hydroxybutylidene)bis- [9CI] (CA INDEX NAME)

89987-06-4 HCAPLUS Phosphonic acid, [[(4-chlorophenyl)thio]methylene]bis- (9CI) (CA INDEX NAME)

L24 ANSWER 3 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 2005:119883 HCAPLUS DOCUMENT NUMBER: 142:204863 142:204863
Biocompatible coated medical implants with a carbon layer and method for preparation Rathenow, Joerg; Asgari, Soheil; Ban, Andreas Blue Membranes GmbH, Germany Ger. Offen. 23 pp. CODEN: GWXXEX Patent TITLE:

A1 20030721 DE 2003-10333098

DE 2003-10333099

A1 20030721

AB The invention concerns a method for the preparation of biocompatible coatings for implants, and medical goods composing the steps (a) coating the medical good at least partially with a polymer film using a coating process; (b) heating the polymer film in an oxygen-free atmospheric at 200-2500

°C to obtain a carbon layer on the medical good. The medical goods are heat resistant; they are prepared from carbon, carbon fibers, ceramics.

L24 ANSWER 3 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued)

105462-24-6 HCAPLUS Phosphonic acid. [1-hydroxy-2-(3-pyridinyl)ethylidene]bis- (9CI) (CA INDEX NAME)

L24 ANSWER 4 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

2005011145 EMBASE

on STN ACCESSION NUMBER: TITLE: Electrolytic deposition of calcium etidronate drug coating on titanium substrate.

Duan K.; Fan Y.; Wang R.

R. Mang, Department.of Materials Engineering, University

AUTHOR: CORPORATE SOURCE: of

SOURCE:

British Columbia, 309-6350 Stores Road, Vancouver, BC V6T 124, Canada. rzwang@interchange.ubc.ca Journal of Biomedical Materials Research - Part B Applied Biomaterials, (15 Jan 2005) 72/1 (43-51).

Biomaterials, (15 Jan 2005) /2/1 (43-3-, Refs: 3)
15SN: 0021-9304 CODEN: JEMRGL
United States
Journal: Article
027 Biophysics, Bioengineering and Medical
Instrumentation
037 Drug Literature Index
039 Pharmacy
Facilish

037 Drug Literature Index
039 Pharmacy
LANGUAGE: English
SUMMORY LANGUAGE: English
AB Wear debris-induced osteolysis is the major cause of aseptic loosening and

failure of hip implants. One of the promising therapeutic interventions

improve the longevity of hip implants is to administrate hisphosphonate drug to inhibit osteoclastic bone resorption. This study aimed at developing new techniques of directly combining bisphosphonate with implants to achieve local delivery and controlled release of the drug. Instead of using soluble sodium salt, we proposed to apply sparingly soluble calcium salt of hisphosphonate as a potential long-term antiosteolysis coating on hip implants. Calcium salt of etidronate, a member of the bisphosphonate family of potent osteoclast inhibitors, was used in this pilot study. By adopting the electrolytic deposition (ELD) technique, which was developed for ceramic coatings including calcium phosphates, we demonstrated that a thin layer of tum

including calcium pnosphases, a transformation including calcium bisphosphonate could be deposited onto titanium surface. The drug coating is amorphous as characterized with X-ray diffraction, and has globular morphology under the scanning electron microscope.

Electrospray-ionization mass-spectrometry (ESI-MS) and Fourier-transformed infrared spectroscopy confirmed that the molecular structure of the etidronate (m/z 205, H(3)L(-), the single dissociated form of parent etidronic acid, denoted

H(4)L) was preserved after the ELD process. In vitro release into a "physiological" buffer solution confirmed that the etidronate

physiological butter solution continued that the ethicolate contentration was limited by its low solubility. The etidronate concentration was 8 x 10(-5) M at day 1 and kept relatively stable at .apprx.6 x 10 (-5) M from day 2 to day 8. The deposition mechanisms of the drug coating and its potential efficacy as an antiosteolytic release source were discussed. .COPYRGT. 2004 Wiley Periodicals, Inc.

L24 ANSWER 5 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued) RECORD. ALL CITATIONS AVAILABLE IN THE RE PORMAT

L24 ANSMER 5 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:902159 HCAPLUS
DOCUMENT NUMBER: 141:170572
TITLE: 0rally disintegrating tablets containing silicitied cellulose Platteeuw, Johannes Jan; Van den Heuvel, Dennie Johan INVENTOR (S):

PATENT ASSIGNEE(S): SOURCE:

Synthon B.V., Neth.
PCT Int. Appl., 39 pp.
CODEN: PIXXD2 DOCUMENT TYPE: LANGUAGE: Patent English

FAMILY ACC, NUM. COUNT: PATENT INFORMATION:

KIND DATE APPLICATION NO. PATENT NO. WO 2004091585 A1 20041230 US 2004-824619 US 2003-463027P US 2004265375 PRIORITY APPLN. INFO .:

Silicified microcryst. cellulose is used to provide a tablet with oral disintegration. The tablet contains at least 30% of the silicified microcryst. cellulose and an effective amount of a pharasceutically active agent. For example, orally disintegrating tablets were prepared containing leflunomide 20.00%, silicified microcryst. cellulose (Prosolv) 74.50%, low-substituted hydroxypropyl cellulose 5.0%, and Mg stearate 0.5%.

0.5%.
129318-43-0, Alendronate sodium
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
[orally disintegrating tablets containing silicified microcryst.

cellulose) 129318-43-0 HCAPLUS

Phosphonic acid. (4-amino-1-hydroxybutylidene)bis-, monosodium salt (9CI) (CA INDEX NAME)

• Na

REFERENCE COUNT: THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS

L24 ANSWER 6 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
140:429037
High viscosity liquid controlled drug delivery and medical or surgical device Gibson, John W.; Miller, Stacey S.; Middleton, John C.; Tipton, Arthur J.
USA
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
FAMIL

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	NO.							DATE					
	101557							20021210					
								19950607					
								19990827					
									20031210				
W:	AE, AG,												
			DE, DK,										
			ID, IL,										
			LV, MA,										
			PT, RO,							TM,			
			UA, UG,										
RW:	BW, GH,	GM, KE,	LS, MW,	MZ,	SD, SL,	SZ, TZ	, UG,	ZM, ZV	, AM,	AZ,			
	BY, KG,	KZ, MD,	RU, TJ,	TM,	AT, BE,	BG, CH	, сч,	CZ, DE	, DK,	EE,			
			GR, HU,										
	TR, BF,	BJ, CF,	CG, CI,	CM,	GA, GN,	GQ, GW	, ML,	MR, NE	, SN,	TD,			
TG													
PRIORITY APP	LN. INFO.	. :			US 1	995-474	337	A2	19950	607			
					US 1	995-478	450	B2	19950	607			
					US 1	997-944	022	A2	19970	915			
					US 1	999-385	107	A3	19990	827			
					ite o	000-699	002	2.2	20001	026			
					J3 2	000-033							
					US 2	002-316	441	A	20021	210			

The present invention relates to novel nonpolymeric compds. and compas. that form liquid, high viscosity materials suitable for the delivery of biol. active substances in a controlled fashion, and for use as medical or surgical devices. The materials can optionally be diluted with a solvent to form a material of lower viscosity, rendering the material easy to administer. This solvent may be water insol. or water soluble, where the water soluble solvent rapidly diffuses or migrates from the material in vivo, leaving a higher viscosity liquid material.

1.6-Hexanediol lactate e-hydroxycaproic acid produced in was dissolved in N-methylpyrrolidone at a weight ratio of 70:30. Bupivacaine base (10%) was then added to this mixture Drops weighing approx. 100 mg were precipitated into 40 mL buffer. At 4 h, around 4.1 weight of the vaccine

bupivacaine contained in the precipitated drop had been released. At 24 h, around 8.6 weights

Searched by: Mary Hale 571-272-2507 REM 1D86

L24 ANSMER 6 OF 79 HCAPLUS COPYRIGHT 2005 ACS on 5TN of the bupivacaine had been released.

1T 40391-99-9 66376-36-1, Alendronate 105462-24-6 (Continued) Risedronic acid
RL: THU (Therapeutic use): BIOL (Biological study): USES (Uses)
(high viscosity liquid controlled drug delivery system and medical or
surgical device)
40391-99-9 HCAPLUS Phosphonic acid, (3-amino-1-hydroxypropylidene)bis- (9CI) (CA INDEX CN NAME)

С— СН2— СН2— ИН2 H2O2P

PO₃H₂

66376-36-1 HCAPLUS
Phosphonic acid, (4-amino-1-hydroxybutylidene)bis- (9CI) (CA INDEX NAME)

C- (CH2)3-NH2 H203P-POsts

105462-24-6 HCAPLUS Phosphonic acid. [1-hydroxy-2-(3-pyridinyl)ethylidene]bis- (9CI) (CA INDEX NAME). (CA

L24 ANSWER 7 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued)

C- (CH2) 3-NH2 PO3H2

• Na

. С— (СН2)3-NH2

L24 ANSWER 7 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
1171LE:
1170 Controlled release dosage forms
with core tablet sheathed in an annular body of
compressed powder or granular material
Lerner, E. Itzhak; Rosenberger, Vered; Aqua, Ofer;
PATENT ASSIGNEE(S):
1srel
1srel PATENT ASSIGNEE (S) : U.S. Pat. Appl. Publ., 28 pp., Cont.-in-part of U.S. Ser. No. 291,619, abandoned.
CODEN: USXXCO DOCUMENT TYPE: Patent English LANGUAGE: FAMILY ACC. NUM. CO PATENT INFORMATION: COUNT: DATE DATE 20030303 20021112 APPLICATION NO. PATENT NO. KIND US 2003-379338 BR 2002-15413 US 2003-419536 US 2001-342442P US 2004052843 BR 2002015413 US 2003206954 Al 20040318 A A1 20031106 PRIORITY APPLN. INFO.: US 2002-361821P P 20020304 B2 20021112 US 2002-291619 W 20021112 WO 2002-US63081

The present invention provides controlled release
pharmaceutical dosage forms for oral administration in which a
core tablet is sheathed in an annular body of compressed powder or
granular material. A preferred embodiment of the zero-order release
pharmaceutical dosage form is a solid pharmaceutical
dosage form which reduces contact of the active ingredient in solid form
with the mucosa lining the gastrointestinal tract, which is particularly
advantageous for delivering an ulcerative drug. The drug layer may be
recessed from the opening of the annular body on one or both sides, and
the drug layer is recessed from the surface so that any contact, whether
with hands or with the mucosa, is with the walls of the annular body.

annular body is preferably made of non ulcerative and non sensitive pharmaceutical ingredients such as hydroxypropyl cellulose, hydroxypropyl methylcellulose, microcryst. cellulose, starch, lactose, sugars, polyvinyl pyrrolidone, calcium phosphate and any other regular tablet excipients. A process for making the zero-order release pharmaceutical dosage form are also provided.

129318-43-0, Monosodium alendronate
RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(controlled release dosage forms with core tablet sheathed in annular body of compressed powder or granular material)
129318-43-0 HCAPPUS
Phosphonic acid, (4-amino-1-hydroxybutylidenelhis, manosodium and food

Phosphonic acid, (4-amino-1-hydroxybutylidene)bis-, monosodium salt (9CI) (CA INDEX NAME)

L24 ANSWER 8 OF 79 HCAPLUS COPYRIGHT 2005 ACS On STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
141:266048
Hedical implants with carbon-containing surfaces that are functionalized
PATENT ASSIGNEE(S):
Blue Membranes GmbH, Germany
Ger. Gebrauchsmusterschrift, 18 pp.
CODEN: GGXXFR
DOCUMENT TYPE:
LANGUAGE:
PAMILY ACC. NUM. COUNT:
6

DATE 20040916 20041216 20050210 20050210 APPLICATION NO. KIND DATE DE 202004009061 DE 10324415 DE 10333098 DE 10333099 PRIORITY APPLN. INFO.: DE 2004-202004009061 DE 2003-10324415 DE 2003-10333098 DE 2003-10333099 DE 2003-10324415 U1 A1 A1 A1 20040528 20030528 20030721 20030721 A1 20030528

DE 2003-10333098 A1 20030721 DE 2003-10333099 A1 20030721

AB The invention concerns medical implants with carbon-containing surfaces that

are functionalized; the surfaces are prepared by (a) preparing a medical implant with a carbon-containing surface; (b) activation of the carbon

by creating porosity; (c) functionalization of the activated, carbon-containing layer. The carbon layer can be prepared by pyrolysis,

PVD, sputtering, ion implantation. The medical devices are prepared from carbon, carbon-composite material, glass, ceramics, glass fibers, carbon fibers, metals, stainless steel, titanium, tantalum, platinum, nitinol, alloys, artificial bone, minerals, and their combinations. Artificial blood vessels, stents, coronary stents, peripheral stents, orthopedic implants, artificial hearts and heart valves, artificial bones and joints are prepared The carbon layer is activated with oxidation or reducing agents in the presence of sir, en.

oxygen, nitrogen monoxide, oxidative acids; heat and/or ultrasound can be

applied.

The activated implant surfaces are functionalized with drugs, microorganisms, plant, animal or human cells. The invention also

concerns
controlled-release implanted drug delivery systems.

17 2809-21-4, Etidronic acid 40391-99-9 66376-36-1
, Alendronic acid 89987-06-4, Tiludronic acid 105462-24-6

103462-24-6
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (medical implants with carbon-containing surfaces that are functionalized)
RN 2809-21-4 RCAPLUS
CN Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)

40391-99-9 HCAPLUS
Phosphonic acid, (3-amino-1-hydroxypropylidene)bis- (9CI) (CA INDEX

с— сн3— сн3— ин3

66376-36-1 HCAPLUS
Phosphonic acid, (4-amino-1-hydroxybutylidene)bis- (9CI) (CA INDEX NAME)

. С— (СН₂)₃— NH₂ PO3H2

89987-06-4 HCAPLUS
Phosphonic acid, [[(4-chlorophenyl)thio]methylene]bis- (9CI) (CA INDEX

PO3H2

105462-24-6 HCAPLUS
Phosphonic acid, [1-hydroxy-2-(3-pyridinyl)ethylidene]bis- (9CI) (CA
HNEX NAME)

L24 ANSWER 9 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN ACCESSION NUMBER: TITLE: 2004335684 EMBASE
Pharmacological management of metastatic boney

AUTHOR: CORPORATE SOURCE:

Pharmacological management of metastatic boney
pain.
Viney R.P.C.: Hayne D.: Ayra M.: Patel H.R.H.
Dr. H.R.H. Patel, Department of Urology, Guys Hospital, St
Thomas Street, London SE1 9R. United Kingdom.
Arhpatel@doctors.org.uk
Expert Opinion on Pharmacotherapy, (2004) 5/7 (1555-1563).
Refs: 39
ISSN: 1465-6566 CODEN: EOPHF7
United Kingdom
Journal; General Review
008 Neurology and Neurosurgery
016 Cancer
033 Orthopedic Surgery
036 Health Policy, Economics and Management
037 Drug Literature Index
038 Adverse Reactions Titles
English

COUNTRY: DOCUMENT TYPE: FILE SEGMENT:

Adverse Reactions Titles

LANGUAGE: English

SUMMARY LANGUAGE: English

AB Many malignancies metastasise to the skeleton. This often results in a relatively unique pain process, which dramatically affects a patient's quality of life. With one in three members of the population likely to develop cancer at some stage in their lives, the prevalence of bone metastases is high. Despite the large financial investment on therapies for these patients, treatment is still suboptimal [1]. In this article, the various treatments available are reviewed. Opiates and biaphosphonates, the mainstays in current practise, are covered in detail, and evolving therapies that may shape future management are also discussed. 2004 .COPYRGT. Ashley Publication Ltd.

2004391283 EMBASE
[SUpportive therapy of multiple myeloma].
SUPPORTIVE THERAPIE DES MULTIPLEN MYELOMS.
Zojer N.; Strasser-Weippl K.; Ludwig H.
Dr. H. Ludwig, Medizinische Abteilung mit Onkologie,
Wilhelminenspital, Montleartstrasse 37, 1160 Wien, AUTHOR: CORPORATE SOURCE:

Heinz.ludwig@wienkav.at Onkologe, (2004) 10/8 (843-851). Refs: 28 ISSN: 0947-8965 CODEN: ONKOF4

Refs: 28

ISSN: 0947-8965 CODEN: ONKOF4

COUNTRY: Germany
DOCUMENT TYPE: Journal: General Review
FILE SEGMENT: 006 Internal Medicine
016 Cancer
025 Hematology
037 Drug Literature Index
038 Adverse Reactions Titles

LANGUAGE: German

SUMMARY LANGUAGE: English: German
AB During the last decade, the life expectancy of patients with multiple myeloma has improved significantly, mainly due to more efficient anti-myeloma therapy. In order to preserve a high quality of life throughout the course of the disease, comprehensive supportive therapy is necessary. The most common complications occurring in patients with myeloma are osteolytic bone lesions leading to pain and fractures, hypercalcemia, anemia with fatigue, and infections. Por prevention and/or therapy of these complications a variety of measures may be required/including the administration of bisphosphonates, radiation and timely operative stabilization of osteolytic lesions to prevent pathologic
fractures, adequate therapy of anemia, tailored pain therapy, rapid treatment, and prophylaxis against possible infections. Treatment success increases the patients' well-being, which is mirrored in improved quality of life.

Searched by: Mary Hale 571-272-2507 REM 1D86

L24 ANSWER 11 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

ON STN
ACCESSION NUMBER: 2004487237 EMBASE 2004487237 EMBASE
Symptom management in the older adult.
Brown J.A.; Von Roenn J.H.
J-VonroennOmorthwestern.edu
Clinics in Geriatric Medicine, (2004) 20/4 (621-640).
Refa: 98
ISSN: 0749-0690 CODEN: COMEE
S 0749-0690 (04)00063-1
United States
Journal; General Review
020 Gerontology and Geriatrics
036 Health Policy, Economics and Management
037 Drug Literature Index
038 Adverse Reactions Titles
039 Pharmacy
English TITLE: AUTHOR: CORPORATE SOURCE: SOURCE: PUBLISHER IDENT .: COUNTRY: DOCUMENT TYPE: FILE SEGMENT: LANGUAGE:

è

LANGUAGE: English
SUMMARY LANGUAGE: English
AB Palliative care begins at the time of diagnosis of a life-threatening
illness and continues beyond the time of death. Defined in the broadest
sense, the goal of palliative care is to provide aggressive symptom
management and address the psychological and spiritual needs of the
patient and the family. This article reviews the management of some
symptoms commonly observed in older patients, highlighting treatment
considerations specific to the older population. Ultimately the approach
to symptoms must be individualized, and treatment decisions must reflect
the patient's goals of care. Although symptom management in older
patients ents may be challenging, it is possible to provide care that significantly enhances quality of life throughout the course of illness.

L24 ANSWER 13 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED. on STN On STN ACCESSION NUMBER: 2004229328 EMBASE
Pharmacokinstic and pharmacodynamic
aspects of gestroretentive dosage forms.
Hoffman A.; Stepensky D.; Lavy E.; Eyal S.; Klausner E.;
Friedman M.
A. Hoffman, Department of Pharmaceutice, School of
Pharmacy, Hebrew University of Jerusalem P.O. Box 12065,
Jerusalem 91120, Israel. shoffman@cc.huji.ac.il
International Journal of Pharmaceutics, (11 Jun 2004)
277/1-2 (141-153).
Pages 23 (141-153). AUTHOR: CORPORATE SOURCE: SOURCE: 277/1-2 (141-153).
Refs: 28
ISSN: 0378-5173 CODEN: IJPHDE
S 0378-5173 (04) 00122-X
Netherlands
Journal; Conference Article
030 Pharmacology
037 Drug Literature Index
038 Adverse Reactions Titles
039 Pharmacy PUBLISHER IDENT.: COUNTRY: DOCUMENT TYPE: FILE SEGMENT OSS Adverse Reactions Titles

Pharmacy

English

SUMMARY LANGUAGE: English

AB Controlled release gastroretentive dosage forms

(CR-GRDF) enable prolonged and continuous input of the drug to the upper
parts of the gastrointestinal (GI) tract and improve the bicoavailability

of medications that are characterized by a narrow absorption window.

CR-GRDF provide a means to utilize all the pharmacokinetic (PK)

and pharmacodynamic (PD) advantages of controlled

release dosage forms for such drugs. Thus, CR-GRDF may improve
therapy with clinically used medications, as well as enable oral

administration of drugs, or drug candidates, that hitherto had to be
infused perenterally. This manuscript discusses the complexity of the PK

and PD factors that influence the treatment benefits of CR-GRDF and
summarizes the results of our recent in vivo investigations in animal

models (rats and dogs) and in human subjects. We found that a CR-GRDF
formulation was superior to the other modes of administration for

levodops

levodopa and riboflavin, but not for metformin. The PK and PD rationales of GRDFs for the studied drugs are presented and discussed. We conclude that due

the complexity of the PK and PD factors for a certain drug, the rationale for continuous administration obtained by CR-GRDF should be assessed and established in vivo. .COPYRGT. 2004 Elsevier B.V. All rights reserved.

On STN

ESSION NUMBER: 2004450001 EMBASE

EE: Preparation and evaluation of floating risedronate sodium Gelucire* 39/01 matrices.

HOR: Chauban B.; Shimpi S.; Mahadik K.R.; Paradkar A.

HORATE SOURCE: A. Paradkar, Department of Pharmaccutics, Bharati Vidyapeeth Deemed University, Poona College of Pharmacy, Erandwane, Pune-411018, Maharashtre, India. anant_paradkardyahoo.com

RCE: Acta Pharmaceutica, (2004) 54/3 (205-214).

Refs: 24

ISSN: 1330-0075 CODEN: ACPHEE

NTRY: Croatia

UNENT TYPE: Journal; Article

E SEGMENT: 037 Drug Literature Index

037 Drug Literature Index

039 Pharmacy

GUAGE: English

MARY LANGUAGE: English; Serbian

Incorporation of bisphosphonates in the lipid reduces gastric irritation.

Only gastric retention with sustained release allows

the drug to reach the duodenum and jejunum and improves the availability of bisphosphonates. Risedronate sodium and Gelucire* 39/01 floating matrices were prepared using melt solidification. The sustained release floating matrices were evaluated for in vitro and in vivo floating ability and in vitro drug release. Ageing of the matrices was studied by differential scanning calorimetry, hot stage polarizing microacopy, scanning electron microscopy and in vitro drug release.

Incauses changes in the crystal structure of Gelucire*, which is AUTHOR: CORPORATE SOURCE: SOURCE: COUNTRY: DOCUMENT TYPE: FILE SEGMENT: ANGUAGE Ageing
causes changes in the crystal structure of Gelucire*, which is
responsible for an increase in drug release.

L24 ANSWER 12 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

2004450001 EMBASE

on STN ACCESSION NUMBER:

DUPLICATE 1

2004297256 MEDLINE
PubMed ID: 15198426
Microencapsulation of hydrophilic drug substances using biodegradable polyesters. Part II: Implants allowing controlled drug release-a feasibility study using bisphosphonates.
Weidenauer U; Bodmer D; Kissel T
Department of Pharmaceutics and Biopharmacy, Philipps-University, D-35032 Marburg, Germany.
Journal of microencapsulation, (2004 Mar) 21 (2) 137-49.
Journal code: 8500513. ISSN: 0265-2048.
England: United Kingdom
Journal; Article; (JOURNAL ARTICLE)
Engliand: Article; (JOURNAL ARTICLE) L24 ANSWER 14 OF 79 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: AUTHOR: CORPORATE SOURCE: SOURCE: PUB. COUNTRY: DOCUMENT TYPE: LANGUAGE: FILE SEGMENT: English Priority Journals 200409 E SEGMENT: Priority Journals
RY MONTH: 200409
RY DATE: Entered STN: 20040617
Last Updated on STN: 20040915
Entered Mediane: 20040914
The prolonged delivery of hydrophilic drug salts from hydrophobic polymer carriers at high drug loading is an ambitious goal. Pamidronate disodium salt (APD) containing implants prepared from spray-dried microparticles were investigated using a laboratory ram extruder. An APD-containing polymer matrix consisting of an APD-chitosan implant embedded in the biodegradable polymer D.L-poby(
lactide-co-glycolide acid-glucose) (PLO-GLU)
was compared with a matrix system with the micronized drug distributed in the PLG-GLU. The APD-chitosan matrix system showed a triphasic release behaviour at loading levels of 6.86 and 15.54% (w/w) over 16 days under in-vitro conditions. At higher loading (31.92%), a drug burst was observed within 6 days due to the formation of pores and channels in the polymeric matrix. In contrast, implante containing the micronized drug showed a more continuous release profile over 48 days up to a loading of 31.78% (w/w). At a drug loading of 46.7% (w/w) a drug burst was observed. Using micronized drug salts and reducing the surface area available for diffusion, parenteral delivery systems for highly water-soluble drug candidates were shown to be technically feasible at high drug loadings. ENTRY MONTH: ENTRY DATE:

on STN ACCESSION NUMBER:

ů

TITLE:

2005027526 EMBASE (News from drug research and development). NEUES AUS ARZMEIMITTEL-FORSCHUNG UND -ENTMICKLUNG. Deutsche Apotheker Zeitung. (23 Dec 2004) 144/52 (21-33). ISSN: 0011-9857 CODEN: DAZEA. SOURCE:

COUNTRY: DOCUMENT TYPE:

Germany Journal: General Review 030 Pharmacology 037 Drug Literature Index German FILE SEGMENT:

LANGUAGE:

L24 ANSWER 16 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

ON STN
ACCESSION NUMBER: 2004161314

L24 ANSWER 16 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

ON STN

ACCESSION NUMBER:
ZO04161336 EMBASE
Chicosan microspheres as a potential carrier for drugs.
Sinha V.R.: Single A.K.; Madhawan S.; Kaushik R.; Kumris R.; Bansal K.; Dhawan S.

CORPORATE SOURCE:
SOURCE:
International Journal of Pharmaceutical Sci., Panjab University, Chandigarh 160014, India. vr_sinha@yahoo.com
International Journal of Pharmaceutics, (15 Apr 2004)
274/1-2 (1-33).
Refs: 205
ISSN: 0378-5173 CODEN: IJPHDE
SOURCHENT TYPE:
OCUMENT TYPE:
JOURNAL; General Review
J010 Pharmacology
J017 Drug Literature Index
J039 Pharmacy
English
SUMMARY LANGUAGE: English
AB Chicosan is a biodegradable natural polymer with great potential for pharmaceutical applications due to its biocompatibility, high charge density, non-toxicity and mucoadhesion. It has been shown that it not only improves the dissolution of poorly soluble drugs but also exerts a significant effect on far metabolism in the body. Gel formation can be obtained by interactions of chitosans with low molecular counterions such as polyphosphates, sulphates and crosplinking with glutaraldehyde. This gelling property of chitosan shows a wide range of applications such as coating of pharmaceuticals and food products, gel entrapment of biochemicals, plant embryo, whole cells, microorganism and algae. This review is an insight into the exploitation of the verious properties of chitosan to microencapsulate drugs. Various techniques used for preparing chitosan microspheres and evaluation of these microspheres have also been reviewed. This review also includes the factors that affect the entrapment.

entrapment
efficiency and release kinetics of drugs from chitosan microspheres
.COPYRGT. 2008 Elsevier B.V. All rights reserved.

L24 ANSHER 17 OF 79
ACCESSION NUMBER:
DOCUMENT NUMBER:
139:250322
Controlled release dosage forms
Lerner, E. Itzhak; Rosenberger, Vered; Aqua, Ofer;
Flashner-Barak, Moshe
Teva Pharmaceutical Industries Ltd., Israel; Teva
Pharmaceutical Use, inc
PCT Int. Appl., 59 pp.
CODEN: PIXXD2
Patent

DOCUMENT TYPE: Patent English 3

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.					KIND DATE				APPL	I CAT		DATE						
							-											
WO 2003075893				A1		20030918			WO 2	003-1		2003						
		W:	AE,	AG.	AL,	AM,	AT,	AU,	AZ,	BA,	BB.	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
			co.	CR,	Cυ,	CZ,	DE,	DK,	DM,	DZ.	EC,	EE,	ES,	FI,	GB,	GD,	GΕ,	GH,
								IN,										
			LS.	LT,	LU,	LV,	MA,	MD,	MG.	MK,	MN,	MW,	ΜX,	MZ,	NO,	NZ.	OM,	PH,
			PL,	PT.	RO,	RU,	sc,	SD,	SE.	SG,	SK,	SL,	TJ.	TM,	TN,	TR,	TT,	TZ,
			UA.	UG.	US,	UZ.	vc.	VN,	YU,	ZA,	ZM,	ZW						
		RW:	GH.	GM.	KE,	LS.	MW.	MZ.	SD,	SL,	SZ.	TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,
			KG.	KZ.	MD,	RU,	TJ,	TM.	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,
			PI.	FR.	GB,	GR,	HU,	IE.	IT,	LU,	MC.	NL,	PT,	RO,	SE,	SI,	SK,	TR,
			BF.	BJ,	CF,	cc.	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG
	BR	2002	0154	13		A		2004	1214		BR 2	002-	1541	3		2	0021	112
	CA	2477	701			AA		2003	0918		CA 2	003-	2477	701		2	0030	303
	BR	2003	0083	05		Α		2004	1228		BR 2	003-	8305				0030	
	EP	1492	508			A1		2005	0105		EP 2	003-	7138	82		2	0030	303
		R:	AT,	BE.	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SÉ,	MC,	PT,
			IE,	SI,	LT,	LV.	PI,	RO,	MK,	CY.	AL,	TR,	BG,	CZ,	EE,	Hυ,	sĸ	
0	RIT	Y APP	LN.	INFO	. :						US 2	002-	3618	21P		P 2	0020	304
											us 2	002-	2916	19		A 2	0021	112
											υs 2	001-	3424	42P		P 2	0011	224
											WO 2	002-	US63	081	,	w 2	0021	112
											wn 2						0030	302

A zero-order release pharmaceutical dosage form for oral administration to a patient comprises a core tablet sheathed in an

body of compressed powder or granular material. A preferred embodiment

the zero-order release pharmaceutical dosage form is a solid pharmaceutical dosage form which reduces contact of the active ingredient in solid form with the mucosa lining the gastrointestinal tract. Which is particularly advantageous for delivering an ulcerative drug. A process for making the zero-order release pharmaceutical dosage form are also provided. Oxybutynin (50 g), was mixed with

anhydrous
lactose (50 g) in a one pot granulator. The granulation solution, 5%
KlucelTM LF (21 mL), was added with stirring until thorough mixing was
achieved. The granulate was dried in the one pot granulator at
45-50° with for 20 min. The granulate was milled in a Quadro

L24 ANSWER 17 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued) ComilTM milling machine using a screen size of 1143 μm. The oxybutymin granulate (27.6 g) was mixed with MethocelTM K15M (19 g), and compressible

ressible sucrose (Nu-TabTM, 52.4 g). Magnesium stearate (1 g) was added with mixing. The blend was compressed into tablets on a single punch tablet machine using 6 mm flat beveled punches to produce tablets weighing about 110 mg and having a hardness of 4 Kp. PEG-4000 was milled and passed through a 500-mm acreen. The milled PEG-4000 (24 g), was mixed with Povidone K-30 (5 g), and Ethocel (71 g), for 3 min. Magnesium stearate

g), was added and the blend mixed for another 0.5 min. The inner cores, produced above, were pressed within the outer mantle by using this blend and a 9-mm outer cylinder spring loaded core rod tooling. The final product, an annular ring coated tablet with recessed exposed axial faces, had an outer diam. of 9 mm, a total wt. of 350 mg and contained 15 mg

had an outer diam. of 9 mm, a total wt. of 350 mg and contained 15 mg oxybutynin.
65376-35-1, Alendronate 129318-43-0, Monosodium
Alendronate 600115-20-9
RL: PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(controlled release dosage forms)
65376-36-1 HCAPLUS
Phosphonic acid, (4-amino-1-hydroxybutylidene)bis- (9CI) (CA INDEX NAME)

129318-43-0 HCAPLUS Phosphonic acid, (4-amino-1-hydroxybutylidene)bis-, monosodium salt (9CI) (CA INDEX NAME)

● Na

600116-20-9 HCAPLUS
Phosphonic acid, (4-amino-1-hydroxybutylidene)bis-, trihydrate (9CI) (CA
INDEX NAME)

(CH₂)₃-NH₂ H2O3 F

●3 H₂O

REFERENCE COUNT:

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

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L24 ANSMER 18 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued) copolymer and the use thereof. Thus a copolymer was prepd. using the monomers: Me acrylate 40; Et acrylate 30; methacrylic acid 30. An emulsion polymerizate contg. 30% of the copolymer was mixed with 0.85% sodium lauryl sulfate (in relation to the copolymer); the fluid was dried to a film; the film was sol. in an artificial intestinal juice at pH 6.8.

IT 2809-21-4 40391-99-9 66376-36-1. Alendronate
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (pharmaceutical dosage forms coated with and acrylic copolymers)
              copolymers)
2009-21-4 HCAPLUS
Phosphonic acid. (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)
                   - Me
 H2O3P
                    PO3H2
              40391-99-9 HCAPLUS
Phosphonic acid, (3-amino-1-hydroxypropylidene)bis- (9CI) (CA INDEX
 H2O3 P
                    С— СН2— СН2— NH2
                    PO3H2
              66376-36-1 HCAPLUS
Phosphonic acid, (4-amino-1-hydroxybutylidene)bis- (9CI) (CA INDEX NAME)
                        - (CH<sub>2</sub>)<sub>3</sub>- NH<sub>2</sub>
 H2O3 P
                    ,
РО3Н2
                                                                                  THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
  REFERENCE COUNT:
  FORMAT
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L24 ANSHER 18 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:696722 HCAPLUS
DOCUMENT NUMBER: 139:219350
INVENTOR(S): Parameteutical domage forms coated with and acrylic copolymers
PATENT ASSIGNEE(S): Rochm G.m.b.H. & Co. K.-G., Germany
SOURCE: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: PARILY ACC. NUM. COUNT: 1
  DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                          MO 2003072087 A1 20030904 MO 2003-EP934 20030130
M: AE, AG, ALI, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ. CA, CH, CN, CO, CR, CU, CZ. DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SS, GS, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZM
RN: GM, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, PI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GM, ML, MR, NE, SN, TD, TG
DE 10208135 A20030904 CA 2003-2476972 20030130
CA 2476972 AA 20030904 CA 2003-2476972 20030130
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, SE R 20030606 A A 20050104 BR 2003-1030605 A 20030130
RITT APPLN. INFO.:
 BR 2003008006
PRIORITY APPLN. INFO.:
                                                                                                                                                                                                                                                         WO 2003-EP934
                                                                                                                                                                                                                                                                                                                                                                        W 20030130
                   The invention relates to a method for producing a pharmaceutical domage form as tableta, pellets and/or in the form of an active ingredient-containing matrix, whereby the tablets, pellets and/or active ingredient-containing matrix contain a pharmaceutical active ingredient and a copolymer serving as a costing agent and/or binding agent, and optionally contain a core and pharmaceutically crommon additives. According to the invention, the copolymer, the pharmaceutically common additives are processed using known techniques by melting, injection modding, extrusion, wet granulation, casting, dipping, spreading out, spraying on, or pressing to form tablets, pellets and/or an active ingredient-containing matrix. The inventive method is characterized in that a copolymer is used that consists of 20 to 34 weight % methacrylic acid, 20 to 69 weight % hylacrylate
  methylacrylate
and 0 to 40 weight % ethylacrylate and, optionally, of 0 to 10 weight %
                              addnl. vinylically copolymerizable monomers with the provision that the glass transition temperature of the copolymer is no higher than 60° according to ISO 11357-2, Item 3.3.3. The invention also relates to the pharmace
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L24 ANSMER 19 OF 79
ACCESSION NUMBER:
DOCUMENT NUMBER:
139:90451
TITLE:
2ero-order sustained-release
dosage forms
Heimlich, John M.; Noack, Robert M.; Cox, Steve R.;
Ganorkar, Loksidh D.; Verhage, Ronald R.; John, Lee
                                                                Pharmacia Corporation, USA
PCT Int. Appl., 34 pp.
CODEN: PIXXD2
Patent
English
2
 PATENT ASSIGNEE(S):
SOURCE:
 DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
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PATENT NO. KIND DATE APPLICATION NO. DATE

**MO 2003053402 A1 20030703 M0 2002-US41104 20021219

**W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, C2, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, OH, GM, HR, HU, ID. IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, AM, MD, MG, MM, MM, MM, MX, ND, NZ, OM, PH, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, 2A, 2M, ZW

**RI: GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CT, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GM, GM, GM, MR, NE, SN, TD, TG

**US 2003133982 A1 20030717 US 2002-324719 20021219

**EP 1455751 A1 20040915 EP 2002-792508 20021219

**ER 2002015262 A 20041228 BR 2002-152642 P P 20011220
                                                                                                                                                                                                                                                                                                                US 2001-342819P
                                                                                                                                                                                                                                                                                                                                                                                                                                                      P 20011220
                                                                                                                                                                                                                                                                                                                  WO 2002-US41104
                                                                                                                                                                                                                                                                                                                                                                                                                                                       W 20021219
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The present invention relates to zero-order sustained-release solid dosage forms suitable for administration of a wide range of drugs, especially those that are water-soluble The solid ge form

range of druge, especially those that are weter-subset. The service rige form comprises (a) a matrix core comprising Et cellulose and the active agent and (b) a hydrophobic polymer coating encasing the entire matrix core. Thus, tablets contained clindamycin-HCl 76.44, Et cellulose 18.08, and Mg stearste 0.25%. Extra-granular formulations comprised Ethocel 4.99, and Mg stearste 0.25%. The coating composition comprised HPMC 10.6, and Surclease 43.2%. defended to the service of the service service and surface that the service service surface service service service service service service service service services. (Biological study); USES (Uses) (zero-order sustained-release dosage forms) 66376:36-1 HCAPLUS
Phosphonic acid, (4-amino-1-hydroxybutylidene)bis- (9CI) (CA INDEX NAME)

L24 ANSWER 19 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN

REFERENCE COUNT:

FORMAT

L24 ANSWER 20 0P 79
ACCESSION NUMBER:
DOCUMENT NUMBER:
1NVENTOR(S):
PATENT ASSIGNEE(S):
DOCUMENT TYPE:
LANGUAGE:
DOCUMENT TYPE:
LANGUAGE:
PALLY ACC. NUM. COUNT:
1

COPYRIGHT 2005 ACS on STN
2001;491052 MCAPLUS
2001;491052 MCAP

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. MO 2003051373 A1 20030626 W0 2002-US38200 20021126
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LK, LR,
LT, LU, LV, MA, MD, MG, MK, NN, MM, MX, MZ, NO, NZ, OM, PH, PL,
PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
FI, FR, GB, GR, LE, IT, LU, MC, NL, PT, SE, SK, TR, BP, BJ, CF,
CG, CI, CM, GA, GN, GO, GM, ML, MR, NE, SN, TD, TG
US 2003139378 A1 20040922 B7 2002-784653 20021126
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK
PRIORITY APPLN. INFO:

The present invention relates to high dome oral liquid formulations of bisphosphonate and their methods of use to treat/prevent diseases to bone remodeling or bone discorders, such as for example, Paget's disease, osteoporosis, metastatic bone disease, hypercalcemia of malignancy, periprosthetic osteolysis, periodontal disease, arthritic conditions, and the like, while minimizing the potential for esophageal irritation and other adverse gastrointestinal effects. These methods comprise orally administering to a mammal the liquid pharmaceutical compa.

of at least 1 bisphosphonate, or a salt, as a unit dosage according to

WO 2002-US38200

continuous schedule having a once-weekly, twice-weekly, biweekly, twice-monthly, or monthly doesing interval. Thus, a formulation contained alendronate monosodium trihydrate 2.454, and sodium citrate dihydrate 21.18 mg/mL, NaOH and HCl ge to pH 6.8, and water ge to 1.00 mL. 66376-36-1, Alendronate 131268-17-5, Alendronate monosodium trihydrate 260055-05-8, Phosphonic acid, (4-amino-1-hydroxybutylidene)bis-, monosodium salt, monohydrate RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Usee) (liquid bisphosphonate formulations for bone disorders) 66376-36-1 HCAPLUS
Phosphonic acid, (4-amino-1-hydroxybutylidene)bis- (9CI) (CA INDEX NAME)

L24 ANSWER 20 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued)

121268-17-5 HCAPLUS
Phosphonic acid, (4-amino-1-hydroxybutylidene)bis-, monosodium salt, trihydrate (9CI) (CA INDEX NAME)

260055-05-8 HCAPLUS
Phosphonic acid, (4-amino-1-hydroxybutylidene)bis-, monosodium salt, monohydrate (9CI) (CA INDEX NAME)

2809-21-4 40391-99-9 89987-06-4, Tiludronate 105462-24-6 129318-43-0, MonoSodium Alendronate 157412-53-6 160882-64-9, Phosphonic acid, (4-amino-1-hydroxybutylidene)bis-, sodium salt 548457-54-1 548457-54-1 548457-55-6 548457-56-3 548457-59-6
RI: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(liquid bisphosphonate formulations for bone disorders)
2809-21-4 HCAPLUS
Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME) L24 ANSWER 20 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued)

40391-99-9 HCAPLUS Phosphonic acid, (3-amino-1-hydroxypropylidene)bis- (9CI) (CA INDEX

89987-06-4 HCAPLUS
Phosphonic acid, [[(4-chlorophenyl)thio]methylene]bis- (9CI) (CA INDEX NAME)

105462-24-6 HCAPLUS Phosphonic acid, [1-hydroxy-2-(3-pyridinyl)ethylidene]bis- (9CI) (CA INDEX NAME)

129318-43-0 HCAPLUS Phosphonic acid, (4-amino-1-hydroxybutylidene)bis-, monosodium salt (9C1) (CA INDEX NAME)

Searched by: Mary Hale 571-272-2507 REM 1D86

OH . Ç— (CH₂)3−NH₂

• Na

157432-51-6 HCAPLUS
Phosphonic acid, (4-amino-1-hydroxybutylidene)bis-, magnesium salt (9CI)(CA INDEX NAME)

он |-- (СН₂) 3 — NН₂

●x Mg

160982-64-9 HCAPLUS Phosphonic acid, (4-amino-1-hydroxybutylidene)bis-, sodium salt (9CI) INDEX NAME)

C- (CH2)3-NH2 POsHo

●x Na

548457-54-1 HCAPLUS Phosphonic acid, (4-amino-1-hydroxybutylidene)bis-, potassium malt (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 2003:334829 HCAPLUS ON STN
ACCESSION NUMBER: 2003:334829 HCAPLUS
DOCUMENT NUMBER: 138:343889
Novel pharmaceutical compounds containing drugs bound to polypeptides
INVENTOR(S): Picariello, Thomas
New River Pharmaceuticals Inc., USA
POT Int. Appl., 4662 pp.
COODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC, NUM. COUNT: 12

PATENT NO. KIND DATE APPLICATION NO. DATE

MO 20030314980 A2 20030501 WO 2001-US43089 20011114

WO 20030314980 C1 20031120

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, CM, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW

RN: GM, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, GC, CM, ML, MR, NE, SN, TD, TG

GO, GM, ML, MR, NE, SN, TD, TG

CA 2428971 AA 20030501 CA 2001-2428971 20011114

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, PRIORITY APPLN. INFO: US 2000-247622P P 20001114 WO 2001-US43089 W 20011114

WO 2001-US43089 W 20011114

Compns. comprising polypeptides and drugs covalently attached to the polypeptide are disclosed. Also provided is a method for delivery of these drugs to a patient comprising administering to the patient a composition comprising a polypeptide and a drug covalently attached to the polypeptide. Also provided is a method for protecting drugs from degradation comprising covalently attaching them to a polypeptide. Also provided is a method for controlling release of drugs from a composition comprising covalently attaching them to the polypeptide. Solvent of the polypeptide of the polypeptide. Solvent of the polypeptide of the polypeptide. Solvent of the polypeptides. Solvent of the polypep

L24 ANSWER 20 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued)

H₂O₃ P− С− (CH₂)₃−NH₂

●х к

548457-56-3 HCAPLUS
Phosphonic acid, (4-amino-1-hydroxybutylidene)bis-, calcium salt (9C1)
(CA INDEX NAME)

он | | н₂0₃ р— с— (СН₂) ₃— NН₂

●x Ca

548457-59-6 HCAPLUS Phosphonic acid, (4-amino-1-hydroxybutylidene)bis-, ammonium salt (9CI) (CA INDEX NAME)

С- (CH₂)₃-NH₂

●x NH₃ REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

(Continued) L24 ANSWER 21 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN

С- (CH2) 3-ИН2 PO3H2

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L24 ANSWER 22 OF 79 HCAPLUS COPYRIGHT 2005 ACS ON STN
ACCESSION NUMBER: 2003:202410 HCAPLUS
DOCUMENT NUMBER: 138:226705
                                                                                                        L24 ANSWER 22 OF 79 HCAPLUS COPYRIGHT 2005 ACS on 5TN US 2000-248695P
                                                                                                                                                                                (Continued)
P 20001116
                             138:226705
Novel pharmaceuticals comprising drug conjugates with polypeptide carriers Picariello, Thomas Picariello, Thomas New River Pharmaceuticals Inc., USA PCT Int. Appl., 2059 pp. CODEN: PIXXD2
                                                                                                                                                            US 2000-248696P
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TITLE:
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INVENTOR (S):
PATENT ASSIGNEE(S):
SOURCE:
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DOCUMENT TYPE:
                             English
                                                                                                                                                            US 2000-248702P
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FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                                                                                                                                            US 2000-248703P
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                                                   APPLICATION NO.
      PATENT NO.
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US 2000-248704P
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 L24 ANSWER 22 OF 79 HCAPLUS COPYRIGHT 2005 ACS ON STN US 2001-248668P
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                                                                                                                                                            WO 2001-US43117
                                                    US 2001-248676P
                                                                           P 20011116
                                                                                                              A pharmaceutical composition comprising a polypeptide and
an active agent attached to said polypeptide is disclosed.
40391-99-9D, polypeptide conjugates
RL: TMU (Therapeutic use): BIOL (Biological study): USES (Uses)
(novel pharmaceuticals comprising drug conjugates with
                                                    US 2001-248677P
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                                                    US 2001-248678P
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                                                    US 2001-248679P
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                                                                                                               polypeptide carriers)
40391-99-9 HcAPLUS
Phosphonic acid, (3-amino-1-hydroxypropylidene)bis- (9CI) (CA INDEX
                                                    US 2001-248680P
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Searched by: Mary Hale 571-272-2507 REM 1D86

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L24 ANSWER 23 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:154278 HCAPLUS
DOCUMENT NUMBER: 138:198670
   ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
INVENTOR(5):
                                                                                                                 138:198670
GRRh agonist combination drugs
Furuya, Shuichi; Kusaka, Masami
Takeda Chemical Industries, Ltd., Japan
PCT Int. Appl., 73 pp.
CODEN: PIXXD2
    PATENT ASSIGNEE (5) :
SOURCE:
   DOCUMENT TYPE:
     LANGUAGE:
                                                                                                                  Japanese
   FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                         PATENT NO.
                                                                                                                  KIND
                                                                                                                                           DATE
                                                                                                                                                                                                      APPLICATION NO.
                                                                                                                                                                                                                                                                                                               DATE
                                                       3015820 A1 20030227 W0 2003-JP8130 20020808
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DX, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GH, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LIT, LU, LY, MA, MD, MG, MK, MN, MM, MX, MZ, NO, NZ, OM, PH, PY, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UL, UG, US, UZ, VN, YU, ZA, ZM, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ.
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TM

RM: GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, ZM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, PI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BP, BJ, CF, CG, CI, CM, GA, GN, GQ, GM, ML, MR, NE, SN, TD, TG

JP 200137814

A2 20030514

JP 2002-758914

20020808

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK

PRIORITY APPLN. INPO.:

A 2010810
                                                                                                                                                                                                      WO 2002-JP8130
                                                                                                                                                                                                                                                                                                 W 20020808
                   In the field of pharmaceuticals, it is intended to provide drugs whereby the preventive and therapeutic effects of a GRRH agonist on various diseases can be enhanced and QOL can be improved. More specifically, combination drugs characterized in that the GRRH agonist is combined with a chemical selected from among SERM, SARM, sex hormone synthesis inhibitors, receptor-type tyrosine kinase inhibitors, bone metabolism regulators, drugs for immunotherapy, cytokine/chemokine bibtors
metabolism regulators, drugs for immunotherapy, e.co.
inhibitors
and endothelin receptor antagonists. Owing to these combinations,
excellent effects of enhancing the preventive and therspeutic effects of
the GnRH agonist on various diseases and relieving side effects can be
established. Purthermore, OOL can be improved thereby.

17 2809-21-4, Etichronic acid 40931-99-9, Pamidronic acid
66376-36-1, Alendronic acid 105462-24-6, Risedronic acid
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(GnRH agonist combination drugs for treating various diseases and
relieving side effects)

RN 2809-21-4 RCAPLUS
ND Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)
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OH
H2O3P—C Me
PO3H2
RN 40391-99-9 HCAPLUS
CN Phosphonic acid, (3-amino-1-hydroxypropylidene)bia- (9CI) (CA INDEX NAME)

OH
H2O3P—C CH2—CH2—NH2
PO3H2
RN 66376-36-1 HCAPLUS
CN Phosphonic acid, (4-amino-1-hydroxybutylidene)bia- (9CI) (CA INDEX NAME)

OH
H2O3P—C (CH2)3—NH2
PO3H2
RN 105462-24-6 HCAPLUS
CN Phosphonic acid, (1-hydroxy-2-(3-pyridinyl)ethylidene)bia- (9CI) (CA INDEX NAME)

OH
H2O3P—C CH2
PO3H2

RN 105462-24-6 HCAPLUS
CN Phosphonic acid, (1-hydroxy-2-(3-pyridinyl)ethylidene)bia- (9CI) (CA INDEX NAME)

OH
H2O3P—C CH2
PO3H2

N
REFERENCE COUNT: 69 THERE ARE 69 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE
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L24 ANSWER 23 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN

(Continued)

ACCESSION NUMBER:

DOCUMENT NUMBER:

DOCUMENT NUMBER:

139:126974

Dosage form for immediate gastric release of a calcium transport atimulator coupled with delayed gastric release of a bis-phosphonate

Pleshner-Barak, Moshe
Pleshner-Barak, Mo

L24 ANSWER 24 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued)

RN 66376-36-1 HCAPLUS
Phosphonic acid, (4-amino-1-hydroxybutylidene)bis- (9CI) (CA INDEX NAME)

OH

H2O3P-C-(CH2)3-NH2
PO3H2
RN 89987-06-4 HCAPLUS
CN Phosphonic acid, [[(4-chlorophenyl)thio]methylene]bis- (9CI) (CA INDEX NAME)

RN 105462-24-6 HCAPLUS
CN Phosphonic acid, [1-hydroxy-2-(3-pyridinyl)ethylidene]bis- (9CI) (CA INDEX NAME)

ON

H2O3P-C-CH2
PO3H2

NN 121268-17-5 HCAPLUS
CN Phosphonic acid, (4-amino-1-hydroxybutylidene)bis-, monosodium salt, trihydrate (9CI) (CA INDEX NAME)

ON

H2O3P-C-(CH2)3-NH2
PO3H2

NA

NA

NA

260055-05-8 HCAPLUS
Phosphonic acid, (4-amino-1-hydroxybutylidene)bis-, monosodium salt, monohydrate (9C1) (CA INDEX NAME)

● H₂O

REFERENCE COUNT:

THERE ARE 2 CITED REPERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

(Continued)

FORMAT

L24 ANSWER 26 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.
ON STN
ACCESSION NUMBER: 2003432402 EMBASE

TITLE: AUTHOR: CORPORATE SOURCE:

2003432402 EMBASE
Drug-Induced Esophageal Injuries and Dysphagia.
O'Neill J.L.; Remington T.L.
T.L. Remington, University of Michigan Health System,
Department of Pharmacy UH B2 D301, 1500 E. Medical Center
Dr., Ann Arbor, MI 48109-0008, United States.
remingtn@umich.edu
Annale of Pharmacotherapy, (2003) 37/11 (1675-1684).
Refs: 110
ISSN: 1060-0280 CODEN: APHRER
United States
JOurnal; General Review
037 Drug Literature Index
038 Adverse Reactions Titles
039 Pharmacy
048 Gastroenterology
English Foresth

SOURCE:

COUNTRY: DOCUMENT TYPE: FILE SEGMENT:

039 Pharmacy
048 Gastroenterology
LANGUAGE: English
SUMMARY LANGUAGE: English; Spanish; French
AB OBJECTIVE: To review and analyze medical literature documenting
drug-induced esophageal injury and dysphagia and to formulate strategies
to enhance pharmacists' prevention, detection, and treatment of
these iatrogenic complications. DATA SURCES: A MEDLINE search
(1966-April
2002) was conducted to identify primary and secondary literature using
variable combinations of the following search terms: pill-induced,
drug-induced, or iatrogenic with esophageal injury, esophageal damage, or
dysphagia. Bibliographies were also reviewed to identify additional
relevant references. STUDY SELECTION AND DATA EXTRACTION: All case
reports, reviews, and clinical studies relating to drug-induced
esophageal
injury or swallowing dysfunction were evaluated. DATA SYNTHESIS:
Drug-induced esophageal injury may be under-recognized. Several drugs
have

been associated with physical or chemically mediated injuries. Risk factors for injury have been identified and preventive and treatment strategies have been successful in limiting esophageal injury. Drug-induced dysphagia can have serious complications and is most often associated with typical neuroleptics such as haloperidol. CONCLUSIONS: Pharmacists can play a pivotal role in proactively identifying situations where there is a higher likelihood of drug-induced esophageal injury or dysphagia. They can recommend preventive strategies to promote safe medication use, help identify introgenic complications when they occur, and assist in formulation of appropriate treatment strategies.

L24 ANSWER 25 OF 79 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
ACCESSION NUMBER: 2004:64836 BIOSIS
DOCUMENT NUMBER: PREV200400065894

AUTHOR (S):

PREV200400065894
Preparation of 1-hydroxyethylidene-1,1-diphosphonic acid-intercalated layered double hydroxide and its physicochemical properties.
Nakayama, Hirokazu (Reprint Author); Takeshita, Koji; Tsuhako, Mitsutomo
Department of Functional Molecular Chemistry, Kobe
Pharmaceutical University, 4-19-1 Motoyamakitamachi, Higashinada-ku, Kobe, 658-8558, Japan hiro@kobepharma-u.ac.jp
Journal of Pharmaceutical Sciences, (December 2003) Vol. 92, No. 12, pp. 2419-2426, print.
CODEN: JPMSAE. ISSN: 0022-3549.
Article CORPORATE SOURCE:

SOURCE .

DOCUMENT TYPE: LANGUAGE:

ENTRY DATE:

CODEN: JPMSAE. ISSN: 0022-3549.

MENT TYPE: Article

UAGE: English

Y DATE: Entered STN: 28 Jan 2004

Last Updated on STN: 28 Jan 2004

The intercalation of 1-hydroxyethylidene-1,1-diphosphonic acid (HEDP), which is a drug for osteoprocsie, in layered double hydroxide (LDH) was examined with the goal of developing a novel drug delivery system (DDS)

HEDP. To prevent side reactions, the intercalation reaction was carried out at OdegreeC, and at pH 4-6. The uptake of HEDP was determined as 3.0 mmol g-1 of LDH, and the interlayer distance increased from 7.8 to 13 mmol g-1 of LDH, and the interlayer distance increased from 7.8 to 13 mmol g-1 of LDH, and the interlayer distance increased from 7.8 to 13 mmol g-1 of LDH, and the interlayer distance increased from 7.8 to 13 mmol g-1 of LDH, and the interlayer distance increased from 7.8 to 13 mmol g-1 of LDH, and the interlayer distance increased from 7.8 to 13 mmol g-1 of LDH, and the interlayer distance increased from 7.8 to 13 mmol g-1 of LDH, and the interlayer distance increased from 7.8 to 13 mmol g-1 of LDH, and the interlayer distance increased from 7.8 to 13 mmol g-1 of LDH, and the interlayer distance increased from 7.8 to 13 mmol g-1 of LDH, and the interlayer distance increased from 7.8 to 13 mmol g-1 of LDH, and the interlayer distance increased from 7.8 to 13 mmol g-1 of LDH, and the interlayer distance increased from 7.8 to 13 mmol g-1 of LDH, and the interlayer distance increased from 7.8 to 13 mmol g-1 of LDH, and the interlayer distance increased from 7.8 to 13 mmol g-1 of LDH, and the interlayer distance increased from 7.8 to 13 mmol g-1 of LDH, and the interlayer distance increased from 7.8 to 13 mmol g-1 of LDH, and the interlayer distance increased from 7.8 to 13 mmol g-1 of LDH, and the interlayer distance increased from 7.8 to 13 mmol g-1 of LDH, and the interlayer distance increased from 7.8 to 13 mmol g-1 of LDH, and the interlayer distance increased from 7.8 to 13 mmol g-1 of LDH, and the interlayer distance increased from 7.8 to 13 mmol g-1 of LDH, and the interlayer distance increased from 7.8 to 13 mmol g-1 of LDH, and the interlayer distance increased from 7.8 to 13 mmol g-1 of LDH, and the interlayer distance increased from 7.8 to 13 mmol g-1 of LDH, and the interlayer distance increased from 7.8 to 13 mmol g-1 of LDH, and the interlayer distance increased from 7.8 to 13 mmol g-1 o

The HEDP-release profiles into K2CO3 aqueous solution and into various buffer solutions were also examined.

L24 ANSWER 27 OF 79 HCAPLUS COPYRIGHT 2005 ACS ON STN ACCESSION NUMBER: 2003:383077 HCAPLUS DOCUMENT NUMBER: 140:17159 Oral bharmanni

140:117159
Oral pharmaceutical formulations for bone resorption inhibitor
Anon.
UK

AUTHOR(S): CORPORATE SOURCE: SOURCE:

UK Reaearch Disclosure (2003), 468 (April), P523 (No. 467143) CODEN: RSDSBB; ISSN: 0374-4353 Kenneth Mason Publications Ltd. Journal; Patent English

PUBLISHER: DOCUMENT TYPE: LANGUAGE: PATENT INFORMATION:

PATENT NO. KIND DATE DATE APPLICATION NO.

PATENT NO. RIND DATE AFFECTATION.

RD 467143 20030310

PRIORITY APPLN. INFO.: RD 2003-467143 20030310

AB The chemical formula is presented of an active ingredient in oral formulations for bone resorption inhibitor. Ingredients and dosage forms of the formulation are described.

IT 66376-36-1

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (oral pharmaceutical formulations for bone resorption inhibitor)

RN 66376-36-1 HCAPLUS

CN Phosphonic acid, (4-amino-1-hydroxybutylidene)bis- (9CI) (CA INDEX NAME)

- (CH₂)₃- NH₂

L24 ANSWER 28 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

OR STN

ACCESSION NUMBER:

A case history illustrating how extended release cholinesterase inhibitors could improve management of Alzheimer's disease [1].

AUTHOR:

ALTHOR:

ALTHOR:

ALTHORY:

BOUNCE:

JOURNEY:

COUNTRY:

DOCUMENT TYPE:

JOURNEY:

DOCUMENT TYPE:

JOURNEY:

JOURNEY:

ALTHORY:

ALTH

Drug Delivery Applications.
Chaubal M.V.; Gupta A.S.; Lopina S.T.; Bruley D.F.
M.V. Chaubal, Baxter Healthcare, Route 120 and Wilson AUTHOR: CORPORATE SOURCE: Road. Round Lake, IL 60073, United States Critical Reviews in Therapeutic Drug Carrier Systems, (2003) 20/4 (295-315). SOURCE: Refs: 62 ISSN: 0743-4863 CODEN: CRTSEO United States
Journal: General Review
037 Drug Literature Index
039 Pharmacy COUNTRY: DOCUMENT TYPE: FILE SEGMENT: LANGUAGE: English ARY LANGUAGE: English
Poly(phosphate ester)s, polyphosphonates, and polyphosphazenes are three
classes of phosphorus-containing polymers that have received wide
attention over the past decade for their utility in biomedicine and SUMMARY LANGUAGE: engineering. These three families of polymers can lead to a number of subclasses of polymers with varied properties. Significant research in this area has led to niche polymers with morphologies ranging from gels to smorphous microparticles for utility in drug delivery. Furthermore, the pentavalency of phosphorus offers the potential for covalent linking of the drug. The classes of polymers discussed in this review are being explored in human clinical trials for vaccine delivery well as delivery of oncolytic and CNS therapeutics. More applications in the areas of DNA delivery and tissue engineering are also being explored.

L24 ANSMER 29 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

2003440086 EMBASE Polyphosphates and Other Phosphorus-Containing Polymers

ON STN ACCESSION NUMBER: TITLE:

L24 ANSWER 30 OF 79 HCAPLUS COPYRIGHT 2005 ACS ON STN ACCESSION NUMBER: 2003:486649 HCAPLUS DOCUMENT NUMBER: 140:258856 0ral pharmaceutical formulations for bone TITLE: resorption inhibitor AUTHOR (S): Anon. USA CORPORATE SOURCE: IP.com Journal (2003), 3(4), 61 (No. SOURCE: IPCOM000011782D) , 14 Mar 2003 CODEN: IJPOBX; ISSN: 1533-0001 IP.com, Inc. Journal; Patent English PUBLISHER: DOCUMENT TYPE: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. IP 11782D 20030314

PRIORITY APPLN. INFO: IP 2003-11782D 20030314

AB Sutained, controlled or immediate release
oral dosage forms capable of releasing the active pharmaceutical
ingredient, optionally in the form of its monosodium salt trihydrate, to
human patients immediately or over extended periods following
administration are reported.

If 66376-36-3123328-43-0

RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); (Uses)
(oral phermaceutical formulations for bone resorption inhibitor)
66376-36-1 HCAPLUS
Phosphonic acid, (4-amino-1-hydroxybutylidene)bis- (9CI) (CA INDEX NAME) H2O3P-C- (CH2)3-NH2 PO3H2 129318-43-0 HCAPLUS Phosphonic acid, (4-amino-1-hydroxybutylidene)bis-, monosodium salt (9CI) (CA INDEX NAME) с- (сн₂) 3- ин₂

ACCESSION NUMBER: 2002:813899 HCAPLUS
DOCUMENT NUMBER: 137:299972
ITITE: Modification of the sustained-release profile of a drug by a biocompatible polymer and a bisphosphonate
DOCUMENT TYPE: Dasch, James R.; Riley, M. Gary I.
Alkerness Controlled Therapeutics, Inc., USA
PCT Int. Appl. . 49 pp.
CODEN: PYEND2
PATENT ASSIGNEE(S): Patent
LANGUAGE: PATENT ASSIGNEE(S): Patent
LANGUAGE: PATENT NO. KIND DATE APPLICATION NO. DATE
PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

PATENT NO. KIND DATE APPLICATION NO. DATE

MO 2002083096 Al 20021024 W0 2002-US8440 20020319
M: AE, AG, AL, AM, AT, AU, AZ, BM, BB, BG, BR, BY, BZ, CA, CH, CN, CN, CR, CR, CR, CY, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HJ, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, KK, MM, MM, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, JT, HT, NT, FT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ,

TM

RR: GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, ZM, AT, BE, CH, CY, DE, DK, ES, FT, RG, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, SJ, FF, GB, GB, TT, LI, UB, CN, PT, SE, TR, GB, CR, TS, LT, LU, CC, NL, PT, SE, TR, GB, CR, TS, LT, LU, CC, NL, PT, SE, TR, GB, CR, TS, LT, LU, MC, NL, PT, SE, TR, GB, CR, TS, LT, LU, MC, NL, PT, SE, TR, GB, CR, TS, LT, LU, FT, SE, TR, CR, CR, TS, LT, LU, LU, NL, NL, NL, SE, MC, PT, IF, SI, LT, LV, FI, RO, MK, CY, AL, TR
JP 200452218 T2 20041021 JP 2002-709857 20020319
US 2004147488 Al 20021024 CA 2002-2444421 20020319
US 2004147488 Al 20021025 US 2001-855001 A 20010413
WD 2002146788 Al 20041025 US 2003-400162 2003025
US 200146788 Al 20041025 US 2003-400162 Al 2003025

AB The present invention relates to a method for the sustained relases comp

, PO3H2

● Na

57248-88-1 HCAPLUS
Phosphonic acid, (3-amino-1-hydroxypropylidene)bis-, disodium salt (9CI)
(CA INDEX NAME)

- CH2- CH2- NH2 PO1H2

•2 Na

66376-36-1 HCAPLUS
Phosphonic acid, (4-amino-1-hydroxybutylidene)bis- (9CI) (CA INDEX NAME)

н203Р-С- (СН2)3-ИН2

89987-06-4 HCAPLUS Phosphonic acid, [[(4-chlorophenyl)thio]methylene]bis- (9CI) (CA INDEX NAME)

PO3H2 CH- PO3H2

115436-72-1 HCAPLUS
Phosphonic acid, (1-hydroxy-2-(3-pyridinyl)ethylidene)bis-, monosodium
salt (9C1) (CA INDEX NAME)

L24 ANSWER 32 OF 79
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
COMPOSITION:
DOCUMENT TYPE:

DOCUMENT TYPE:

CAPA CODEN: PIXXD2

PATENT
DOCUMENT TYPE:
DOCUMENT TYPE:

CAPA CODEN: PIXXD2

PATENT
DOCUMENT TYPE:

DOCUMENT TYPE:

ACCESSION CODEN: PIXXD2

PATENT
DOCUMENT TYPE:

CAPA CODEN: PIXXD2

PATENT
DOCUMENT
DOCUMENT TYPE:

CAPA CODEN: PIXXD2

PATENT
DOCUMENT TYPE:

CAPA CODEN:
C

DOCUMENT TYPE: Patent LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

APPLICATION NO. WO 2002-US3794 PATENT NO. KIND DATE

The invention features devices and methods for the delivery of a formulation to an individual to stabilize or increase bone mass by increasing bone deposition and/or decreasing bone resorption. In the present invention, a drug formulation comprising a bisphosphonate is provided parenterally in a sustained release dosage room, e.g., as an injected matrix or stored within a drug delivery

device.

In a specific embodiment, the dosage form may be implanted or injected into a site in the body (i.e., implantation site) and a conduit, e.g., a catheter, can be used to transport the formulation from the dosage form for release at a site in the body distal form the implantation site. Pamidronate sodium was reconstituted with 10 mL phosphate buffered saline to achieve a concentration of 9 mg/mL. The 9 mg/mL solution was then diluted to achieve a concentration of 0.9 mg/mL.

157348-88-1, Disodium Pamidronate
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(compns. containing biephosphonates for management of bone d.)

RN 57348-88-1 RAPBUS
CN Phosphonic acid, (3-amino-1-hydroxypropylidene)bis-, disodium salt (9CI) (CA INDEX NAME)

L24 ANSWER 31 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued)

REFERENCE COUNT: FORMAT

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

L24 ANSWER 32 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued)

- сн2-- сн2-- мн2

●2 Na

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L24 ANSWER 33 OF 79 HCAPLUS COPYRIGHT 2005 ACS ON STN
ACCESSION NUMBER: 2002:555334 HCAPLUS
DOCUMENT NUMBER: 137:114525
TITLE:
                                                                                  Syntactic deformable pharmaceutical foam compositions
                                                                                 Odidi, Isa; Odidi, Amina
INVENTOR (S) :
                                                                                 Cen.
PCT Int. Appl., 47 pp.
CODEN: PIXXD2
 PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
 LANGUAGE:
 FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                PATENT NO.
                                                                                  KIND
                                                                                                      DATE
                                                                                                                                              APPLICATION NO.
                                                                                                                                                                                                                          DATE
                 WO 2002056861
                                                                                   A2
A3
                                                                                                       20020725
20021017
                                                                                                                                              WO 2002-CA54
                                                                                                                                                                                                                          20020117
                 WO 2002056861
                           20021056861 A3 20021017

M; AB, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MX, MZ, MO, NZ, OM, PR, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TH, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, TM, TR, TT, TZ, TM, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NI, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GM, ML, MR, NE, SN, TD, TG 6800668 B1 20041005 US 2001-765783 20010119

APPLN. INFO:
                US 6800668
CA 2435276
PRIORITY APPLN. INFO.:
                                                                                                                                              WO 2002-CA54
                                                                                                                                                                                                               W 20020117
             The invention relates to methods for preparing a syntactic foam compm. suitable for use as a carrier for chems. or other compds., including pharmaceuticals. Carbopol 971P, hydroxyethyl cellulose, cellulose microspheres and silica, was mixed in a high-shear mixer. The resulting admixt. was treated with 2-propanol, while simultaneously subjecting the admixt. to high-shear forces in the high-shear mixer. This mixing ted
                and a uniform stable syntactic deformable and compressible dendritic solid foam which could be shaped before drying. Metoprolol succinate was added to the above admixt. and subjected to high-shear agitation for 2 min before treatment with 2-propanol. A stable syntactic deformable and compressible dendritic solid foam which could be shaped before drying was obtained. This was dried at 40°. The dried foam was the disentangled by size reduction to obtain discrete particles. The free
               ing particles were reassembled and shaped by compression in a mold. The shaped units, when subjected to an aqueous medium, released metoprolol
              a
period of ≤3 h.
66376-36-1, Alendronate
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(syntactic deformable pharmaceutical foam compus.)
66376-36-1 HCAPLUS
Phosphonic acid, (4-amino-1-hydroxybutylidene)bis- (9CI) (CA INDEX NAME)
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L24 ANSWER 34 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continue related bone diseases)

RN 2809-21-4 HCAPLUS
CN Phosphonic acid, (1-hydroxyethylidene)bis- [9CI] (CA INDEX NAME)
                                                                                            (Continued)
          PO3H2
       40391-99-9 HCAPLUS
Phosphonic acid, (3-amino-1-hydroxypropylidene)bis- (9CI) (CA INDEX
             CH2-CH2-NH2
          PO3H2
       66376-36-1 HCAPLUS
Phosphonic acid, (4-amino-1-hydroxybutylidene)bis- (9CI) (CA INDEX NAME)
             - (сн2) 3-- кн2
          PO3H2
        89987-06-4 HCAPLUS
Phosphonic acid, [{{4-chlorophenyl}thio}methylene]bis- {9CI} (CA INDEX NAME)
                     PO3H2
                     CH- PO3H2
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L24 ANSWER 33 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN

+ (CH2) 1- NH2

PO3H2

(Continued)

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PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2002009631 A1 2002027 NO 2001-US22205 20010712

M: AE, AG, AL, AM, AT, AL, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MM, MM, MX, MX, NO, N2, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, RB, BJ, CP, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 6572874 B1 20030693 US 2000-626025 20000727

AU 765269 B2 20030911 AU 2001-551159 20010712

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FR, CY, AL, TR

BR 2001013134 A1 200306521 EP 2001-957155 20010712

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FR, CB, KC, Y, AL, TR

BR 2001013134 A2 20040622 BR 2001-13134 20010712

NO 2003000422 A 20030311 NO 2003-4222 20030127

PRIORITY APPLN. INFO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A3 19980610
                                                                                                                                                                                                                                                                                                                                                                              US 1999-146218P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  P 19990728
                                           A targeted site delivery of bisphosphonates to the vagina using a medicated intravaginal device comprising a bisphosphonate composition formulated for transveginal delivery is described. A method for
  tormulated for transveginal delivery is described. A method for treatment of osteoporosis and related bone and skeleton diseases, for prevention of bone breakdown and loss of bone mass and strength by intravaginal administration of bisphosphonates to the vegina and transveginal delivery of bisphosphonates to the general circulation. For example, veginal suppositories were prepared containing slendronate (14 mg/kg body weight) using

Suppocire AS2 (751), hydroxypropyl Me cellulose (10%), as a mucoadhesive agent, and Transcutol (15%), as a penetration enhancer.

IT 2809-21-4 40391-99-9 66376-36-1, Alendronate 85987-66-4, Tiludronate 105462-24-6

RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therspeutic usel; BIOL (Bological study); USES (Uses)

(vaginal delivery of bisphosphonates for treatment of osteoporosis and
```

L24 ANSWER 34 OF 79
ACCESSION NUMBER:
DOCUMENT NUMBER:
11TLE:
INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:

HCAPLUS COPPRIGHT 2005 ACS on STN
2002:107047 HCAPLUS
136:156434
Vaginal delivery of bisphosphonates
Harrison, Donald C.; Liu, James H.
UMD, Inc., USA
PCT Int. Appl., 68 pp.
CODEN: PIXXD2
Patent

Patent English 5

KIND

DATE 20020207

APPLICATION NO.

DATE

DOCUMENT TYPE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.

L24 ANSWER 34 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN

REFERENCE COUNT:

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DATE
                                    PATENT NO.
                                                                                                                                                                                                                                                                                          APPLICATION NO.
                                                                                                                                                                                                                                                                                                                                                                                                                                             DATE
                                                                                                                                                                      KIND
PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2002005786 A1 20020124 WO 2001-JP6135 20010716

N: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, EG, GH, CM, CM, CM, HR, HU, ID, LI, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, NN, MN, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TT, TT, TZ, LUA, UG, US, UZ, VN, YU, ZA, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RM: GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CP, CG, CI, CM, GA, GM, GM, MM, RN, NE, SN, TD, TG

CA 2415643 AA 20020124 CA 2001-2415643 20010716

EP 1302201 A1 20020124 CP 2001-945994 20010716

EP 1302201 A2 20040346 EP 2001-945994 20010716

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

JP 2004083601 A2 20040318 JP 2002-511719 20010717

PRIORITY APPLN: INFO:
                                                                                                                                                                                                                                                                                                                                                                                                                          A3 20010716
                                                                                                                                                                                                                                                                                            WO 2001-JP6135
                                                                                                                                                                                                                                                                                                                                                                                                                            W 20010716
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L24 ANSWER 15 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
116:123663
Pharmaceutical composition
improved in peroral absorbability
Matenabe, Shunauke; Takemura, Shigeo; Tautaui, Yuuki;
Kondo, Hiromu; Nakanishi, Kiyo; Sako, Kazuhiro;
Sawada, Toyohiro
PATENT ASSIGNEE(S):
PATENT ASSIGNEE(S):
PATENT ASSIGNEE (S):
PATE

Disclosed is a pharmaceutical composition improved in peroral absorbability, which comprises a drug, aminoalkyl methacrylate copolymer E, and an acid substance and in which the three components

adjacent to each another and at least the copolymer and the acid substance

are uniformly dispersed; a method for improving peroral absorbability by using the composition; and a peroral absorption improver for enhancing the penetration of drug into the gastrointestinal mucosa and/or the mucous blanket present on the surface thereof, which contains aminoskyl methacrylate copolymer & sa the active ingredient. A powder was prepared by mixing and drying of Bu methacrylate-dimethylaminoethyl methacrylate-methacrylate copolymer (Eudragit E1001/Tween 80 (10:1) 1650 and 1 M HCl/cthanol (5:12) 12000 g. The obtained powder 125 mg was combined with 11-Hydroxy-2-imidazo-(1,2-a)pyridin-3-ylethylidenejbis-phosphonate 10 and lactose 65 mg to obtain a tablet showing improved Cmax and AUC values in dog. 2809-21-4 66376-36-1, Alendronate RL: PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological

ANSWER 15 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued) study); USES (Uses) (pharmaceutical compus. having improved peroral absorbability contg. drugs, eminoalkylmethacrylate copolymer E, and acids) 2609-21-4 HCAPLUS Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)

66376-36-1 HCAPLUS Phosphonic acid, (4-amino-1-hydroxybutylidene)bis- (9CI) (CA INDEX NAME)

, с— (сн₂) ₃— кн₂ POIH2

REFERENCE COUNT: THERE ARE 18 CITED REFERENCES AVAILABLE FOR RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L24 ANSWER 36 OF 79 HCAPLUS COPYRIGHT 2005 ACS ON STN ACCESSION NUMBER: 2002:10272 HCAPLUS DOCUMENT NUMBER: 136:74650 136:74650 Rapidly expanding composition for gastric retention and controlled release of therapeutic agents Fleshner-Barak, Moshe; Lerner, E. Itzhak; INVENTOR (S):

PATENT ASSIGNEE(S):

Vered; Dahan, Mazal; Imakov, Yisrael Teva Pharmaceutical Industries Ltd., Israel; Teva Pharmaceuticals USA, Inc. PCT Int. Appl., 67 pp. CODEN: PIXXD2 Patent

SOURCE:

DOCUMENT TYPE: LANGUAGE: English FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

ENT NO. KIND DATE APPLICATION NO.

2002000213 A1 20020103 M0 2001-US20134 20010622
M: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DN, DZ, EC, EE, ES, PI, GB, GD, GE, GH, GM, HH, UI, DI, IL, IN, IS, JP, RE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, KS, LT, TJ, TM, TR, TT, TZ, UA, UG, US, CW, NY, UZ, ZN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RM, GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CT, CG, CT, CM, GA, GM, GM, LM, MR, NE, SN, TD, TO 2412490 A2 2002103 CA 2001-2412490 20010652 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IES, ILT, LV, FI, RO, MK, CY, AL, TR
2004501190 T2 20040115 JP 2002-946709 20010662 TY APPLN. INFO: PATENT NO. WO 2002000213

CA 2412490 EP 1305021 JP 2004501190 US 2003203878 PRIORITY APPLN. INFO.: US 2000-217110P P 20000710

> US 2000-223212P P 20000804 US 2001-260438P P 20010109 US 2001-770898 A1 20010126

> US 2002-246502 B1 20020916

W 20010622

WO 2001-US20134

The present invention provides a pharmaceutical composition for use in a dosage form for oral administration to a patient. The composition expands upon contact with gastric fluid and promotes retention of the dosage form in the patient's stomach for a prolonged period of time. The present invention further provides pharmaceutical dosage forms containing an active ingredient, and the pharmaceutical composition The forms are adapted for immediate or controlled release of the active ingredient. The dosage forms may be used advantageously in the treatment of Parkinson's disease with levodops and hyperactivity and attention

```
ANSWER 36 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued) deficit disorder with methylphenidate. A tablet contained sodium alendronate monchydrate 1.67, hydroxypropyl Me cellulose 16.7, hydroxypropyl cellulose 56.6, croscarmellose sodium 14, tannic acid 10, and magnesium stearate 1%. The cumulative realest of alendronate from
                    tablet after 24 h was 45%.
185555-98-2
RL: THU (Therapéutic use); BIOL (Biological study); USES (Uses)
(rapidly expanding composition for gastric retention and
controlled release of therapeutic agents)
18559-98-2 HCAPLUS
Phosphonic acid, (4-amino-1-hydroxybutylidene)bis-, disodium salt,
monohydrate (9CI) (CA INDEX NAME)
the
```

●2 Na

● H₂O

REFERENCE COUNT:

L24 ANSWER 37 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued) formulated in another tablet formulation was incorporated into the above tablet formulation. The tablets obtained had good mech. strength. IT 66376-36-1, Alendronic acid 66376-36-1D, Alendronic acid, salte 121268-17-5 260055-05-8 385336-33-8 38539-53-13
RL: PXT (Pharmacokinetics); THU (Therapeuric Transport Park (Pharmacokinetics); THU (Therapeuric Transport Pharmacokinetics); THU (Therapeuric Trans 66376-36-1 HCAPLUS
Phosphonic acid, (4-amino-1-hydroxybutylidene)bis- (9CI) (CA INDEX NAME)

66376-36-1 HCAPLUS
Phosphonic acid, (4-amino-1-hydroxybutylidene)bis- (9CI) (CA INDEX NAME)

$$_{120_{3}P-C-(CH_{2})_{3}-NH_{2}}^{OH}$$

121268-17-5 HCAPLUS
Phosphonic acid. (4-amino-1-hydroxybutylidene)bis-, monosodium salt, trihydrace (9CI) (CA INDEX NAME)

●3 H2O

260055-05-8 HCAPLUS Phosphonic acid, (4-amino-1-hydroxybutylidene)bis-, monosodium salt, monohydrate (9CI) (CA INDEX NAME) L24 ANSWER 37 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 2002:10265 HCAPLUS 136:74647
Composition and dosage form for delayed gastric release of alendronate and/or other bis-phosphonates
Plashner-Barak, Moshe; Rosenberger, Vered; Dahan, Mazal; Lerner, Yitzhak
Teva Pharmaceutical Industries Ltd., Israel; Teva Pharmaceuticals USA, Inc.
PCT Int. Appl., 28 pp.
CODEN: PIXXD2
Patent
English
4 TITLE: INVENTOR (S): PATENT ASSIGNEE(S): DOCUMENT TYPE: LANGUAGE: FAMILY ACC, NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE PATENT NO. KIND DATE APPLICATION NO. DATE

WO 200200204 A1 20020103 W0 2001-US20130 20010622

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CG, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, TU, ZA, ZW, AM, AZ, BY, KG, KZ, KD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, C1, CM, GA, GN, CM, ML, MR, NS, SN, TD, TG

US 2002015733 A1 200202103

US 6476006 B2 20021105

CA 2412024 AA 20020103 CA 2001-2412024 20010622

EP 1296657 A1 20030402 EP 2001-946706 20010622

EP 129657 A1 20030402 EP 2001-946706 20010622

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IJ, PL, SE, TL, IT, LV, FI, RO, MK, CY, AL, TR

JP 2004501186 T2 20041015 JP 2002-504986 20010622

PRIORITY APPLN. 1NFO: US 2002-264482 P. 20030422 P. 20010623 US 2001-260438P P 20010109 US 2001-770898 A 20010126 WO 2001-US20130 W 20010622 US 2002-246502 B1 20020916

The present invention provides compacted pharmaceutical compas. For oral administration to a patient which expands upon contact with gastric fluid to retain a dosage form in the patient's stomach for an extended period of time, the formulation comprising a non-hydrated hydrogel, a superdisintegrant and tannic acid. The present invention further provides a pharmaceutical dosage form containing an active ingredient, and the compacted pharmaceutical composition The invention further provides a dosage form suitable for delivering a therapeutic bisphosphonate such as alendronate to the ach

stomach
of a patient over an extended period. Thus, an extended-release tablet
formulation contained HPMC 15.9, hydroxypropyl cellulose 47.6, sodium
starch glycolate 31.7, and tannic acid 4.8%. Sodium alendronate

L24 ANSWER 37 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued)

$$\begin{array}{c} \text{OH} \\ | \\ | \\ \text{H}_2\text{O}_3\text{P} - \text{C} - \text{(CH}_2\text{)}_3 - \text{NH}_2 \\ | \\ | \\ \text{PO}_3\text{H}_2 \end{array}$$

● H₂O

385396-33-8 HCAPLUS Phosphonic acid, (4-amino-1-hydroxybutylidene)bis-, sodium salt, monohydrate (9C1) (CA INDEX NAME)

●x Na

2809-21-4 89987-06-4, Tiludronate 105462-24-6
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(dosage forms for delayed gastric release of alendronate and/or other bisphosphonates)
2809-21-4 HCAPUS
Phospho 2809-21-4 HCAPLUS
Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)

89987-06-4 HCAPLUS
Phosphonic acid, [[(4-chlorophenyl)thio]methylene]bis- (9CI) (CA INDEX NAME)

L24 ANSWER 37 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN

Phosphonic acid, [1-hydroxy-2-(3-pyridinyl)ethylidenelbis- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE 2

FORMAT

L24 ANSWER 38 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued)

66376-36-1 HCAPLUS
Phosphonic acid. (4-amino-1-hydroxybutylidene)bis- (9CI) (CA INDEX NAME)

89987-06-4 HCAPLUS
Phosphonic acid, [[(4-chlorophenyl)thio]methylene]bis- (9CI) (CA INDEX NAME)

105462-24-6 HCAPLUS
Phosphonic acid, [1-hydroxy-2-(3-pyridinyl)ethylidene]bis- (9CI) (CA
INDEX NAME)

L24 ANSWER 38 OF 79 HCAPLUS COPYRIGHT 2005 ACS ON STN ACCESSION NUMBER: 2004:951507 HCAPLUS 142:246092 Implantable sustained release formulation of bisphosphonate bone resorption tormaistand of comparison to the inhibitor (inhibitor Kang, Gil Seon; Kim, Hyeong Jong; Kim, Sang Uk; Lee, Kae Bang; Lee, Jeong Sik; Sung, Ha Su Korea Research Institute of Chemical Technology, S. INVENTOR(S): PATENT ASSIGNEE(S): SOURCE. Repub. Korean Kongkae Taeho Kongbo, No pp. given CODEN: KRXXA7 DOCUMENT TYPE: Patent FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE KR 2002080018 А 20021023 KR 2001-19043 KR 2001-19043 20010410

A sustained release formulation obtained by inclusion of bisphosphonate as an inhibitor of bone resorption into a biodegradable polymer and formulation thereof into an implant type is provided which

be administered to the effected part of a patient suffering from bone disease by injection or operation, etc. This sustained release formulation comprises 0.01 to 70% by weight of a bisphosphonate based bone resorption inhibitor and 30 to 99.99% by

bisphosphonate based bone resorption inhibitor and 30 to 99.99% by weight of a biodegradable polymer and is in the shape of 0.1 µ to 20mm fine particles, microsphere, microcapsule, fine powder and paste. The bisphosphonate based bone resorption is one or more selected from Etidronate, Clodronate, Tiludronate, Pamidronate, Alendronate, Risedronate, Clodronate, Zolendronate and a pharmaceutically acceptable salt, hydrate and a partial hydrate thereof.

17 2809-21-4 40391-99-9 66376-36-1, Alendronate 8987-06-4, Tiludronate 105462-24-6
RL: THU (Therapeutic use): BIOL (Biological study); USES (Uses) (implantable sustained release formulation of bisphosphonate bone resorption inhibitor)
RN 2809-21-4 HGAPZUS
CN Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)

40391-99-9 HCAPLUS
Phosphonic acid, (3-amino-1-hydroxypropylidene)bis- (9CI) (CA INDEX

L24 ANSWER 39 OF 79 HCAPLUS COPYRIGHT 2005 ACS ON STN ACCESSION NUMBER: 2002:693116 HCAPLUS DOCUMENT NUMBER: 137:222060

TITLE:

INVENTOR(S):

13/:222060
Method for manufacture of pharmaceutical
granules
Ochiai, Yasushi; Wakisaka, Kouji
Sumitomo Pharmaceuticals Co., Ltd., Japan
Bur. Pat. Appl., 43 pp.
CODEN: EEXXDW
Parent PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

English LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KINL

EP 1238662 A2 20020911 EP 2002-5224

EP 1238662 A3 20030115

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

1E, SI, LT, LV, FI, RO, MK, CY, AL, TR

JP 2002332226 A2 20021122 JP 2002-61478 20020307

IIS 2003039699 A1 20030227 US 2002-91559 20020307

JP 2001-64056 A 20010307 US 2003039699 PRIORITY APPLN. INFO.:

Coated pharmaceutical granules contain a water-soluble drug as an active ingredient at a high d., which is superior in uniform content and stability, and which is capable of providing a pharmaceutical formulation superior in drug release control and having a smaller size than conventional prepns., and a production method

the manufacture of granules. Ny using a rotary fluidized-bed

granulation apparatus, an aqueous solution of metformin-HCl was sprayed on single crystals of

trug charged in the apparatus The granules were dried, and after drying, the granules were sieved to give granules with a particle size of 500-840

7414-83-7, Sodium ethidronate RI: PEP (Physical, engineering or chemical process); PYP (Physical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

USES (USes)
(method for manufacture of pharmaceutical granules)
7414-83-7 HCAPLUS
Phosphonic acid, (1-hydroxyethylidene)bis-, disodium salt (9CI) (CA INDEX NAME)

```
L24 ANSWER 40 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
138:326440
Preparation and characterization of
pamidronate-loaded
                                                                                                                        PLGA wafer for the treatment of bone resorption
Yoo, Je-Young: Kim, Sang Wook: Khang. Gilson; Seong,
Na Soo; Jeong. Je Kyo: Kim, Hyung Jong: Lee, Jung
  AUTHOR (S):
                                                                                                                       Lee, Hai Bang
Dept. of Advanced Organic Materials Eng., Chonbuk
National Univ., Jeonju, 561-756, S. Korea
Polymer (Korea) (2002), 26(5), 680-690
CODEN: POLLDG; ISSN: 0179-153X
Polymer Society of Korea
Journal
   CORPORATE SOURCE:
     LANGUAGE:

Korean

AB Implantable biodegradable wafers were prepared with pamidronate-loaded poly(L-lactide-co-glycolide) (PLGA, 75:25 mol ratio by lactide to glycolide, mol. weight; 20000 and 90000 g/mol) by direct compression
                          od
for the sustained release of pamidronate to
investigate the possibility for the treatment of bone resorption.
Pamidronate-loaded PLGA powders were prepared by means of phys. mixing
 and
spray drying with the control of formulation factors and characterized by
scanning electron microscope and X-ray diffractometer. The
pamidronate-loaded PLGA powders fabricated into wafers by direct
compression under the constant pressure and time at room temperature
These wafers
                           were also observed for their structural characteristic, release pattern,
   and
                          degradation pattern. The release rate of pamidronate increased with increasing their initial loading ratio as well as increasing wafer thickness. The mol. weight of PLGA affects the release pattern: the
   higher
                           mol. weight of PLGA, the faster release rate. It can be explained that
                          higher viscosity of high mol. PLGA solution at same concentration tends
higher viscosity of high mol. PLAN SCAULING AS AND ASSESSED AND ASSESSED AS
```

. С-СH₂-СH₂-NH₂ H2O3P-PO3H2

L24 ANSWER 40 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN

Phosphonic acid, (3-amino-1-hydroxypropylidene)bis-, disodium salt (9CI) (CA INDEX NAME) 57248-88-1 HCAPLUS

с- cн₂- сн₂- мн₂

●2 Na

L24 ANSWER 41 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED. on STN ACCESSION NUMBER: 2002163708 EMBASE

RESERVED.

ON STN

ACCESSION NUMBER:
TITLE:
AUTHOR:
CORPORATE SOURCE:

SOURCE:

Pharmacotherapy, (2002) 22/5 (652-655).
Refa: 10

ISSN: 0277-0008 CODEN: PHPYDO
United States

DOCUMENT TYPE:
DOUBLE SEGMENT:
DOSECTICS and Gynecology
D12 Psychiatry
D15 Parmacy
D17 Drug Literature Index
D18 Adverse Reactions Titles
D19 Pharmacy
English
AB A 41-year-old amenorrheic woman started taking venlafaxine 37.5 mg/day
for treatment of depression; 7 days later, she experienced vaginal bleeding.

treatment of depression; 7 days later, she experienced vaginal bleeding, which ceased 1 day after she stopped taking the drug. On rechallenge with venlafaxine, she again experienced vaginal bleeding that resolved after discontinuation. We found no published reports describing vaginal sding associated with venlafaxine. However, premarketing and postmarketing data report similar adverse effects in patients taking the agent. In addition, several cases of menstrual irregularities have occurred with two other anti-depressants; fluoxetine and bupropion. This case report supports previous surveillance data indicating that venlafaxine may cause vaginal bleeding.

ANSWER 42 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED on STN ACCESSION NUMBER: 2002437234 EMBASE Analgesia issues in palliative care: Bone pain, comtrolled release opioids, managing opioid-induced constipation and nifedipine as an analgesic. AUTHOR: Fine P.G. Dr. P.G. Fine, Department of Anesthesiology, School of Medicine, University of Utah, 50 North Medical Drive, Salt Lake City, UT 84132, United States (ine@aros.net Journal of Pain and Palliative Care Pharmacotherapy, CORPORATE SOURCE: SOURCE: 16/1 (93-97). . Refs: 4 ISSN: 1536-0288 CODEN: JPPCBG United States Journal; General Review COUNTRY: DOCUMENT TYPE: Cancer
Drug Literature Index
Adverse Reactions Titles FILE SEGMENT: 016 037 038 039 GUAGE: English
MARY LANGUAGE: English
MARY LANGUAGE: English
Some recent literature relevant to analgesia in palliative care is
reviewed. Reports on clinical use of bisphosphonates for bone pain in
cancer, controlled release opioids, selection of
laxatives for opioid-induced constipation and the calcium channel blocker
nifedipine as an analgesic are described. .COPYRGT. 2002 by The Haworth
Press, Inc. All rights reserved. LANGUAGE:

L24 ANSMER 43 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued) synthetic polymers such as polyesters, polyethylene glycol, poloxamers, and polyamhydrides. For example, the ability of compds of the invention to inhibit CAA was measured in 9 wk old hAPP transgenic mice treated with two different concess. of a compd. of the present invention, 3-amino-1-propanesulfonic acid sodium salt, 100 and 30 mg/kg. Mice were administered the compd. for 8 wk, after which they were sacrificed and their brains were perfused and processed for histol. staining with Thioflavin S. This method may also be used as a screening method for detg. activity of a candidate compd. for inhibiting CAA. The extent of CAA in brain sections obtained from these animals was qual. detd. following staining. The results indicate that the test compd. was effective in (i) reducing the no. of mice showing CAA, and (ii) showing an effect on the severity of the deposition seen in the brain vasculature of these animals. 40391-99-9 91357-22-1 129318-43-0 IT 373645-11-RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (inhibitors of amyloid β peptide for modulating cerebral amyloid angiopathy 40391-99-9 HCAPLUS Phosphonic acid, (3-amino-1-hydroxypropylidene)bis- (9CI) (CA INDEX C-CH2-CH2-NH2 PO3H2 91357-22-1 HCAPLUS Phosphonic acid. (3-amino-1-hydroxypropylidene)bis-, tetrasodium salt (9CI) (CA INDEX NAME) C- CH2- CH2- NH2

PO3H2

●4 Na 129318-43-0 HCAPLUS L24 ANSWER 43 OF 79 HCAPLUS COPYRIGHT 2005 ACS ON STN ACCESSION NUMBER: 2001:833023 HCAPLUS DOCUMENT NUMBER: 135:376738 135:376738
Compounds and methods for modulating cerebral amyloid angiopathy using inhibitors of an amyloid β peptide
Green, Allan H.; Gervais, Francine
Neurochem, Inc., Can.
PCT Int. Appl.. 68 pp.
CODEN: PIXXD2
Patent TITLE: INVENTOR(S): PATENT ASSIGNEE(S): DOCUMENT TYPE: Patent English FAMILY ACC. NUM. COUNT: PATENT INFORMATION: DATE APPLICATION NO. PATENT NO. KIND WO 2001085093 WO 2001085093 20011115 20020829 20020926 WO 2001085093 085093 C2 20020926
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BC, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, CA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
GH, GM, KE, LS, MN, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BB, BJ, CF, CG, C1, CM, GA, GN, GM, ML, MR, NE, SN, TD, TG
314 AA 20011115 CA 2000-2395314 20001223
317 A2 20021030 EP 2000-993855 20001223
AT, BE, CH, DE, DK, SE, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, RW: PRIORITY APPLN. INFO .: W 20001222 WO 2000-IB2078 WO 2000-IB2078 W 20001222

R SOURCE(S): MARPAT 135:376738
The invention provides methods of inhibiting cerebral amyloid angiopathy (CAA) and treating a disease state characterized by cerebral amyloid angiopathy, e.g., Alzheimer's disease, in a subject using an inhibitor of the 39-40 amino acid amyloid β peptide (AB40). The AB40 inhibitor is selected from, e.g., sulfonic acid derivs., such as ethanesulfonic acid, 1,2-ethanedisulfonic acid, 1-propanesulfonic acid, 1,3-propanedisulfonic acid, 2-aminoethanesulfonic acid, 1.5-pentanedisulfonic acid, 2-aminoethanesulfonic acid, 1-decanesulfonic acid, 4-hydroxy1-butanesulfonic acid, 1-butanedisulfonic acid, 1-decanesulfonic acid, 2-propanesulfonic acid, 2-propanesulfonic acid, 3-pentanesulfonic acid, 2-the management of the manageme OTHER SOURCE(S): (Continued)

L24 ANSWER 43 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued)
OH
H2O3P-C-(CH2)3-NH2

● Na

RN 373645-11-5 HCAPLUS CN Phosphonic acid, (3-aminopropylidene)bis-, tetrasodium salt (9CI) (CA INDEX NAME)

●4 Na

Phosphonic acid, (4-amino-1-hydroxybutylidene)bis-, monosodium salt (9CI) (CA INDEX NAME)

```
L24 ANSWER 44 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:780683 HCAPLUS
DOCUMENT NUMBER: 135:135156
TITLE: Modified-release formulations containing a hypnotic
                                                                       agent
Platteeuw, Johannes Jan; Van Den Heuvel, Dennie Johan
Marijn; Van Dalen, Frans; Lemmens, Jacques Maria
Synthon B.V., Neth.
PCT Int. Appl., 41 pp.
CODEN: PIXXD2
INVENTOR (S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
                                                                        Patent
English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                                                                           DATE
                                                                                                                              APPLICATION NO.
              PATENT NO.
                                                                        KIND
             WO 2001078725
WO 2001078725
                                                                          A2
A3
                                                                                           20011025
20011220
           MO 2001-NL299 A2 20010412

M: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CG, CG, CU, CZ, DE, DK, DM, DM, DZ, EE, ES, F1, GB, GD, GE, GH, GM, HR, HU, 1D, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LK, LS, LT, IU, LV, MA, HD, MG, MK, MN, MN, MX, MZ, NO, NZ, PL, PT, RO, RV, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RN; GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, AT, BE, CH, CY, BB, CF, CG, CI, CM, GA, GN, GM, ML, MR, NE, SN, TD, TG

AU 2001050661 A2 20031030 EP 2001-933999 20010412

EP 1272181 A2 20031010 EP 2001-933999 20010412

ER; ST, BE, CH, DE, DK, ES, FR, GB, GR, IE, IL, UL, NL, PT, SC, MC, PT, IE, SI, LT, LV, PI, RO, MK, CY, AL, TR

SC 2003054041 A1 20031020 US 2001-833662 20010413

US 2004047908 A1 20040311 US 2003-550755 20030909

RITY APPLN. INFO:
                                                                                                                               US 2003-657075
US 2000-196939P
PRIORITY APPLN. INFO .:
                                                                                                                               WO 2001-NL299
                                                                                                                                                                                         W 20010412
                                                                                                                               US 2001-833662
             Hypnotic pharmaceutical compns. are made from pellets and exhibit a modified release. Zolpidem or a pharmaceutically acceptable salt thereof is a typical hypnotic. The pellets are
                spherical and exhibit a dissoln, profile that includes 60% of the
              agent being released from the pellet not earlier than 5 min from the
```

of a specified in vitro dissoln. test. Although the modified release profile can include 50 of the hypnotic agent being released not earlier than 15 min after the start of the dissoln. test, the pellet preferably does not contain a release rate controlling excipient or coating. Instead, microcryst. cellulose and the active constitute the majority of the pellet, e.g. 90 or more. Spherical pellets are also made by a convenient method that is applicable to any pharmaceutically active agent. Microcryst. cellulose 1703, zolpidem hydrochloride hydrate 189.2 g. and water 1892 mL were mixed and stirred for 15 min. Water was then removed and the resulted pellets were dried and fractionated by sieving.

L24 ANSWER 45 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:396644 HCAPLUS
DOCUMENT NUMBER: 155:24671
TITLE: Solid carriers for improved delivery of active ingredients in pharmaceutical compositions
INVENTOR(S): PATENT ASSIGNEE(S): Lipocine, Inc., USA
SOURCE: LOCUMENT TYPE: PATENT INCRUMENT TYPE: PATENT LANGUAGE: PATENT INFORMATION: 12 DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2001037808 A1 20010531 W0 2000-US32355 20001122

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, PI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, HK, MN, MM, MX, RN, NZ, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SI, TJ, TH, TR, TT, TZ, UA, UG, UZ, VM, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RM: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BP, BJ, CP, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 6248363 B1 20010631 VS 1999-447690 19991123

EP 1233756 A1 20020828 EP 2000-980761 20001122

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

JP 2003517470 T2 20030527 JP 2001-53943 20001122

RAD 200312755 A1 19991123 WO 2000-US32255 W 20001122 The present invention provides solid pharmaceutical compas. for improved delivery of a wide variety of pharmaceutical compas. for improved delivery of a wide variety of pharmaceutical active ingredients contained therein or sep. sdminstered. In one embodiment, the solid pharmaceutical composition includes a solid carrier, the solid carrier including a substrate and an encapsulation coat on the substrate. The encapsulation coat can include different combinations of pharmaceutical active ingredients, hydrophilic surfactant, lipophilic surfactants and triglycerides. In another embodiment, the solid carrier being formed of different combinations of pharmaceutical active ingredients, hydrophilic surfactant, lipophilic surfactants and triglycerides. The compas of the present invention can be used for improved delivery of hydrophilic surfactants, lipophilic surfactants and triglycerides. The compastion contained glyburide 1. PEC 40 stearst 33, glycerol monolaurate 17, and nonparell seed 80 g. 7414-83-7, Diaodium etidronate 57248-88-1, Pamidronate disodium 6576-16-1, Alendronate 89987-06-4, Tiludronate 105462-24-6, Risedronic acid RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (solid carriers for improved delivery of active ingredients in pharmaceutical compas.) ANSWER 44 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued 2809-21-4 RI: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (modified-release formulations containing hypnotic agent) 2809-21-4 HCAPLUS Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME) (Continued)

L24 ANSWER 45 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued)
RN 7414-83-7 HCAPLUS
CN Phosphonic acid. (1-hydroxyethylidene)bis-, disodium salt (9CI) (CA NAME)

57248-88-1 HCAPLUS
Phosphonic acid, (3-amino-1-hydroxypropylidene)bis-, disodium salt (9CI)
(CA INDEX NAME)

●2 Na

66376-36-1 HCAPLUS onic acid, (4-amino-1-hydroxybutylidene)bis- (9CI) (CA INDEX NAME)

89987-06-4 HCAPLUS
Phosphonic acid, {{(4-chlorophenyl)thio}methylene}bis- (9CI) (CA INDEX NAME)

105462-24-6 HCAPLUS

Searched by: Mary Hale 571-272-2507 REM 1D86

ANSMER 45 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued) Phosphonic acid. (1-hydroxy-2-(3-pyridinyl)ethylidene|bis- (9C1) (INDEX NAME)

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

L24 ANSWER 46 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued)

C- CH2- CH2- NH2 PO3H2

66376-36-1 HCAPLUS Phosphonic acid, (4-amino-1-hydroxybutylidene)bis- (9C1) (CA INDEX NAME)

C- (CH₂)₃-NH₂ PO3H2

89987-06-4 HCAPLUS
Phosphonic acid, {{(4-chlorophenyl)thio]methylene}bis- (9CI) (CA INDEX NAME)

РО3Н2

105462-24-6 HCAPLUS Phosphonic acid, [1-hydroxy-2-(3-pyridinyl)ethylidene]bis- (9C1) (CA INDEX NAME)

REFERENCE COUNT:

FORMAT

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE 1

```
L24 ANSWER 46 OF 79 HCAPLUS COPYRIGHT 2005 ACS ON STN
ACCESSION NUMBER: 2001:265229 HCAPLUS
DOCUMENT NUMBER: 134:285588
                                                                           Pharmaceutical formulation for menopausal
women comprising fatty acids, calcium compounds, and
folic acid
Levinson, R. Saul; Hermelin, Marc S.; Kirschner,
Hitchell I.
KV Pharmaceutical Company, USA
PCT Int. Appl., 88 pp.
CODEN: PIXXD2
Patent
English
1
INVENTOR (S):
```

PATENT ASSIGNEE (S):

DOCUMENT TYPE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PRI

	PATENT NO.						KIND DATE				APPL	ICAT		DATE				
	NO							20010412						20000828				
		W:	AE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
			CR.	CU.	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	ĢΒ,	GD,	GE,	GH,	GM,	HR,
			HU.	ID.	IL.	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,	LS,	LT,
								MK,										
								SL,										
								KG,										
		RW:	GH.	GM.	KE.	LS.	MW,	MZ,	SD.	SL,	SZ,	TZ,	UG.	ZW,	AT,	BE,	CH,	CY,
								GB,										
								GN.										
	US	6479	545			B1		2002	1112		US 1	999-	4090	59		1	9990	930
		2385																
		1216																
		R:	AT.	BE.	CH.	DE.	DK,	ES,	FR,	ĢΒ,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
								RO,										
	BR	2000	0144	38		A		2002	0820		BR 2	000-	1443	8		2	0000	828
	JP	2003	5103	44		T2		2003	0318		JP 2	001-	5277	71		2	0000	828
		7785				B2											0000	
	US	2002	1377	49		A1		2002	0926		US 2	002-	1063	81		2	0020	327
		2002															0020	404
	US	2002	1735	10		Al		2002	1121		US 2	002-	1312	36		2	0020	425
i c		Y APP										999-						
											WO 2	000-	US23	527		W 2	0000	828

The present disclosure relates to novel compns. which provide improved nutritional support for premenopausal and menopausal women and/ox

or relief from symptoms associated with menopause, as well as prophylactic effects, and methods for using same. A pharmaceutical composition contained vitamin A 5000, vitamin D 400, vitamin E 400 IU, vitamin C 100, vitamin B1 20, vitamin B2 20, vitamin B6 25, vitamin B1250, vitamin B3 100, folic acid 1.0, calcium carbonate 1200, copper 2,

zinc

15, DHA/linolenic/linoleic acid 50/25/25 mg, and selenium 65 µg. 40391-99-9 66376-36-1, Alendronate 89987-06-4, Tiludronate 105462-24-6, Risedronic acid RL: THU (Therapeutic use); BlOL (Biological study); USES (Uses) (pharmaceutical formulation for menopausal women comprising fatty acids, calcium compds., and folic acid) 40391-99-9 HCAPLUS

Phosphonic acid, (3-amino-1-hydroxypropylidene)bis- (9CI) (CA INDEX

L24 ANSWER 47 OF 79
ACCESSION NUMBER:
DOCUMENT NUMBER:
134:198075
Triglyceride-free compositions and methods
for enhanced absorption of hydrophilic therapeutic
agents
ASSIGNEE(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
LIDECTION. PLANGUAGE:
FAMILY ACC. NUM. COUNT:
124
HCAPLUS COPYRIGHT 2005 ACS on STN
201:136991 HCAPLUS
Triglyceride-free compositions and methods
for enhanced absorption of hydrophilic therapeutic
agents
ASSIGNEE(S):
PATENT INFORMATION:
English
Triglyceride-free compositions and methods
for enhanced absorption of hydrophilic therapeutic
agents
agents
FOR TRIANGUAGE
FIXED
English
FAMILY ACC. NUM. COUNT:
125
FAMILY ACC. NUM. COUNT:
126
FAMILY ACC. NUM. COUNT:
127
FAMILY ACC. NUM. COUNT:
127
FAMILY ACC. NUM. COUNT:
128
FAMILY ACC. NUM. COUNT:
129
FAMILY ACC. NUM. COUNT:
129
FAMILY ACC. NUM. COUNT:
120
FAMILY ACC. N

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

APPLICATION NO. PATENT NO. DATE KIND DATE WO 2000-US18807 W 20000710

Wo 2000-USISSOT W 20000710

The present invention relates to triglyceride-free pharmaceutical compns., pharmaceutical systems, and methods for enhanced absorption of hydrophilic therapeutic agents. The compns . and systems include an absorption enhancing carrier, where the carrier is formed from a combination of at least two surfactants, at least one of which is hydrophilic. A hydrophilic therapeutic agent can be corporated into the composition, or can be co-administered with the composition as part of a pharmaceutical system. The invention also provides methods of treatment with hydrophilic therapeutic agents using these compns. and systems. For example, when a composition containing Cremophor RH40 0.30, Arlacel 186 0.20, Na taurocholate 0.18, and propylene glycol 0.32 g, resp., was used, the relative absorption of PEG 4000 as a model macromol. drug was enhanced by 991%.

57248-88-1, Pamidronate disodium 66376-36-1, Alendronate 85987-06-4, Tiludronate 105462-24-6, Risedronic acid RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (compns. for enhanced absorption of hydrophilic drugs using combination of surfactants)

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ANSWER 47 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued) 57248-88-1 HCAPLUS
Phosphonic acid, (3-amino-1-hydroxypropylidene)bis-, disodium salt (9CI) (CA INDEX NAME)
          - cH<sub>2</sub>-- CH<sub>2</sub>-- NH<sub>2</sub>
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66376-36-1 HCAPLUS
Phosphonic acid, (4-amino-1-hydroxybutylidene)bis- (9CI) (CA INDEX NAME)

С- (CH2)3-ИH2 POzHo

●2 Na

89987-06-4 HCAPLUS
Phosphonic acid, [{(4-chlorophenyl)thio]methylene]bis- (9CI) (CA INDEX NAME)

PO3H2 S-CH-PO3H2

105462-24-6 HCAPLUS
Phosphonic acid, (1-hydroxy-2-(3-pyridinyl)ethylidene|bis- (9CI) (CA
INDEX NAME)

1

H2O2P с— сн

REFERENCE COUNT:

FORMAT

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

```
L24 ANSWER 48 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 135:7194
ITITLE: 135:7194
Detergent composition with controlled release of its components
Schmidel, Peter; Gassenmeier, Thomas Otto; Von Rybinski, Molfgang; Kesseler, Arnd; Hardacker, Ingo; Speckmann, Horset-Dieter; Poethkow, Jorg; Krupp, Ute Henkel Kommanditgesellschaft auf Aktien, Germany SOURCE: CODEN: EPXEDW
DOCUMENT TYPE: Patent
LANGUAGE: PAMILY ACC. NUM. COUNT: 1
   LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
OTHER SOURCE(S):
                    R SOURCE(S): MARPAT 135:7194

Solid detergent composition with improved soil/stain removal capability, especially with bleachable soils and at lower washing temps., comprises an alkalizing agent. e.g., alkali carbonate, Na tripolyphosphate, etc., which is released to the washing liquor at a controlled rate. The alkalizing agent is encapsulated or compounded in such a way that $100 of the agent is released after to 01 -125 min and 290% is released after t1 + 3-25 min of the washing process.
29329-71-3, Sodium 1-hydroxyethane-1,1-diphosphonate
RL: TEM (Technical or engineered material use): USES (Uses)
(solid detergent composition with controlled release of alkalizing agents)
29329-71-3 HCAPUUS
Phosphonic acid, (1-hydroxyethylidene)bis-, sodium salt (9CI) (CA INDEX
                                                                                                  MARPAT 135:7194
                    29:329-71-3 HCAPUS
Phosphonic acid, (1-hydroxyethylidene)bis-, sodium salt (9CI) (CA INDEX
NAME)
```

L24 ANSWER 49 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.
ON STN
ACCESSION NUMBER: 2001227030 EMBACE
TITLE: Parkers 2001227030 EMBASE Pathogenesis and pharmacological treatment of bone pain in skeletal metastases. Ripamonti C.; Fulfaro F. C. Ripamonti, Rehab. Pain Therapy/Palliative Care, AUTHOR: CORPORATE SOURCE: National Cancer Institute, Via Venezian 1, 20133 Milan, Italy. ripamonti@istitutotumori.mi.it Quarterly Journal of Nuclear Medicine, (2001) 45/1 Refs: 139 ISSN: 1124-3937 CODEN: QJNMF7 COUNTRY: DOCUMENT TYPE: FILE SEGMENT: Italy Journal; General Review ; General Review
Cancer
Neurology and Neurosurgery
Adverse Reactions Titles
Drug Literature Index
Pharmacology
Radiology
Rediology
General Pathology and Pathological Anatomy
Nuclear Medicine
Health Policy, Economics and Management 016 008 038 037 030 014 005 023 036 LANGUAGE: English
SUMMARY LANGUAGE: English
AB Sixty-five percent of patients with advanced cancer present bone
metastases and most of them present a rather slow clinical course
characterized by pain, mobility deficiences and skeletal complications
such as fractures and spinal cord compression. Metastatic involvement of
the bone is one of the most frequent causes of pain in cancer patients represents one of the first signs of widespread neoplastic disease. The pain may originate directly from the bone, from nerve root compression or from muscle spasms in the area of the lesions. The mechanisms of metastatic bone pain is mainly somatic (nociceptive) even though, in some cases, neuropathic and visceral stimulations may overlap. The symptomatic treatment of contents of the symptomatic treatment of contents.

entional symptomatic treatment of metastatic bone pain requires the use of multidisciplinary therapies such as radiotherapy in association with systemic treatment (hormonotherapy, chemotherapy, radioisotopes) with the support of snalgesic therapy. Recently, studies have indicated the use of bisphosphonates in the treatment of pain and in the prevention of

ctal complications in patients with metastatic bone disease. In some patients pharmacological treatment, radiotherapy, radioisotopes administered alone or in association are not able to manage pain adequately. The role of neuroinvasive techniques in treating metastatic bone pain is debated. The clinical conditions of the patient, his life expectancy and quality of life must guide the physician in the choice of the best possible therapy.

```
L24 ANSWER 50 OF 79
ACCESSION NUMBER:
DOCUMENT NUMBER:
133:198679
Solid oral dosage form containing a permeation enhancer
Cumming, Kenneth Iain; Ramtcola, Zebunnissa
Elan Corporation, P.L.C., Ire.
PCT Int. Appl., 65 pp.
CODEN: PIXXD2
DOCUMENT TYPE:
LANGUAGE:
PAMELY ACC. NUM. COUNT:
PATENT INFORMATION:

LONGUAGE:

ACCEPTANCE

LONGUAGE:

BOSTOR

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      DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                               PATENT NO.
                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NO.
                                                                                                                                                                                                                                       KIND DATE
WO 2000-GB628
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 W 20000222
```

The invention relates to a solid oral dosage form comprising a pharmaceutically active ingredient in combination with a permeation enhancer which enhances the bioavailability and/or the absorption of the active ingredient. Accordingly, a solid oral dosage form comprises a drug and an permeation enhancer wherein the enhancer is

edium chain fatty acid ester, ether or salt or a derivative of a medium fatty acid, which is, preferably, solid at room temperature and which

carbon chain length of from 6 to 20 carbon atoms. Preferably, the solid oral dosage form is a controlled-release dosage form such as a delayed-release dosage form. The effect of sodium salts of various medium chain fatty acid on the transport of TSH releasing hormone across cultured Caco-2 cells was studied. Immediate-release tablets containing leuprolide 0.05, sodium caprate 68.82, silica 0.5, magnesium stearate 0.5, lactose 20, and disintegrant 8% were prepared 64376-36-1, Alendronate RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (solid oral dosage form containing permeation enhancer) 66376-36-1 HCAPLUS Phosphonic acid, (4-amino-1-hydroxybutylidene)bis- (9CI) (CA INDEX NAME)

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1.24 ANSWER 50 OF 79 HCAPLUS COPYRIGHT 2005 ACS ON STN
                                                                     (Continued)
H203 P
       Ç— (CH<sub>2</sub>) 3 - NH<sub>2</sub>
       PO3H2
                                  THERE ARE 12 CITED REFERENCES AVAILABLE FOR
REFERENCE COUNT:
                            12
                                   RECORD. ALL CITATIONS AVAILABLE IN THE RE
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FORMAT

FORMAT

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L24 ANSWER 51 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued) such as a heat sensitive or readily oxidizable pharmaceutically, biol., or nutritionally active component are continuously produced
              out
substantial destruction of the matrix material or encapsulant.
7414-83-7, Etidronate disodium
RL: PFD (Food or feed use); BIOL (Biological study); USES (Uses)
(encapsulation of sensitive liquid components into matrix to obtain
discrete shelf-stable particles)
7414-83-7 HCAPLUS
Phosphonic acid, (1-hydroxyethylidene)bis-, disodium salt (9CI) (CA
        ●2 Na
                                                                                                THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 REFERENCE COUNT:
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L24 ANSWER 51 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
132:293042
Encepsulation of sensitive liquid components into a matrix to obtain discrete shelf-stable particles
Van Lengerich, Bernhard H.
PATENT ASSIGNEE(S):
General Mills, Inc., USA
PCT Int. Appl., 56 pp.
CODEN: PIXXD2
PATENT TYPE:

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   DOCUMENT TYPE:
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English
   FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                         MO 2000021504 A1 20000420 WO 1999-US20905 19991006
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
DE, DK, EE, ES, PI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
MN, MM, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZM, AM, AZ, BY, KG, KZ,
MD, RU, TJ, TM
RH: GH, CM, KE, LS, MM, SD, SL, SZ, TZ, UG, ZM, AT, BE, CH, CY, DE,
DK, ES, PI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
CG, CI, CM, GA, GN, ML, MR, NE, SM, TD, TG
CA 2345815 AA 20000501 AU 1999-2345815 19991006
AU 3963872 AI 20000501 AU 1999-63872 19991006
AU 1119345 AI 20010801 EP 1000.
                                  R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, 1E, SI, LT, LV, PI, RO

JP 2002527375 T2 20020827 JP 2005-575480 19991006
                                                                                                                                                                                                                                                                                         JP 2000-575480
US 1998-103700P
    PRIORITY APPLN. INFO .:
                                                                                                                                                                                                                                                                                                                                                                                                                      P 19981009
                                                                                                                                                                                                                                                                                         US 1998-109696P
                                                                                                                                                                                                                                                                                                                                                                                                                      P 19981124
                                                                                                                                                                                                                                                                                         US 1999-233443
                                                                                                                                                                                                                                                                                                                                                                                                                      A 19990120
                                                                                                                                                                                                                                                                                          WO 1999-US20905
                                                                                                                                                                                                                                                                                                                                                                                                                      W 19991006
                           A liquid encapsulant component which contains an active, sensitive encapsulant, such as a live microorganism or an enzyme dissolved or dispersed in a liquid plasticizer is admixed with a plasticizable matrix material. The matrix material is plasticizable by the liquid plasticizer and the encapsulation of the active encapsulant is accomplished at a low temperature and under low shear conditions. The active component is encapsulated and/or embedded in the plasticizable matrix component or material in a continuous process to produce discrete, solid particles. The liquid content of the liquid encapsulant component provides stantially.
   The liquid content of the liquid plasticizer needed to plasticize the matrix component to obtain a formable, extrudable, cuttable, mixture or dough. Removal of liquid plasticizer prior to extrusion is not needed to adjust the viscosity of the mixture for formability. Release of an
                                  component from the matrix may be delayed or controlled over time so that the active component is delivered when and where it is needed to perform its intended function. Controlled release, discrete, solid particles which contain an encapsulated and/or embedded component
L24 ANSWER 52 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED. On STN
ACCESSION NUMBER: 2000354618 EMBASE
TITLE: Period
```

```
2000354618 EMBASE
Perioperative considerations in patients with metastatic bone disease.
Bibbo C., Patel D.V.; Benevenia J.
C. Bibbo, 2840 Thornbush Court, Charlotte, NC 28270.
 AUTHOR:
CORPORATE SOURCE:
United
                           States
Orthopedic Clinics of North America, (2000) 31/4
 SOURCE:
(577-595).
```

disease is emphasized.

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L24 ANSWER 53 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:219978 HCAPLUS
DOCUMENT NUMBER:
                                            130:242329
                                            130:242329
Solid solution beadlet comprising a long chain fatty acid or ester a surfactant Burnside, Beth A.; McGuinness, Charlotte M.; Rudnic, Edward M.; Couch, Richard A.; Guo, Xiaodi; Tustian, Alexander K.
INVENTOR (S):
                                            ALEXANGER K.
Shire Laboratories, Inc., USA
PCT Int. Appl., 69 pp.
CODEN: PIXXD2
Patent
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
 FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                                       DATE
                                                                             APPLICATION NO.
         PATENT NO.
                                            KIND
                                                                                                                       DATE
        MO 9913864 A2 19990325 MO 1998-US19658 19980918
MO 9913864 A3 19990812
W: AU, CA, JP, MX
RM: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
PT, SE
CA 2302275 AA 19990325 CA 1998-2302275 19980918
                                                        19990325
19990405
20000823
                                                                             CA 1998-2302275
AU 1998-94967
EP 1998-948383
WO 1998-US19658
                                                                                                                 W 19980918
```

Disclosed is a beadlet comprising (i) a hydrophobic long chain fatty acid or ester material; (ii) a surfactant; and (iii) a therapeutic agent,

in admixt. form a solid solution at room temperature. The hydrophobic material

in admixt. form a solid solution at room temperature ine hydrophobic rial preferably has a m.p. of about 40 to about 100°, and is most preferably glyceryl behenate. The surfactant is preferably a polyglycolyzed glyceride, polyoxyethylene sorbate, ethylene or propylene block copolymer or combinations thereof, and is most preferably polyoxyethylene 20 sorbitan monolaurate. Uncoated beadlets were prepared containing acyclovir (1) 35. Labrasol 20, Compritiol 888 40, talc 54. The transport of I through Caco-2 cell monolayers was 18.0 times the control. 129318-39.0, Alendronate sodium
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (solid solution beadlet comprising long chain fatty acid or ester surfactant)
129318-43-0 HCAPLUS
Phosphonic acid, (4-amino-1-hydroxybutylidene)bis-, monosodium salt (9CI) (CA INDEX NAME)

L24 ANSWER 54 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN ACCESSION NUMBER:

1999152202 EMBASE

AUTHOR:

CORPORATE SOURCE:

1999152202 EMBASE Trends in cencer pain management. Lesage P.; Portenoy R.K. Dr. R.K. Portenoy, Pain Medicine/Palliative Care Dept., Beth Israel Medical Center, First Avenue at 16th Street, New York, NY 10003, United States Cancer Control, (1999) 6/2 (136-145).

SOURCE:

Cancer CONESO.
Refs: 36
1SSN: 1073-2748 CODEN: CACOFD
United States
Journal; Article
016 Cancer
023 Nuclear Medicine

COUNTRY: DOCUMENT TYPE:

FILE SEGMENT:

Anesthesiology Drug Literature Index 037

English

LANGUAGE:

LANGUAGE: English
SUMMARY LANGUAGE: English
SUMMARY LANGUAGE: English
AB Background: Pain is a prevalent symptom in cancer patients, affecting up
to 50% of patients undergoing active cancer treatment and up to 90% of
those with advanced disease. Although adequate relief can be achieved in
the majority of cancer patients, pain is often treated inadequately in
traditional settings. Methods: The authors use their experience and that
of others to review the evaluation and diagnosis of pain syndromes and the

principles of management. Results: The World Health Organization and other

governmental agencies have recognized the importance of pain management

part of routine cancer care. Conducting a comprehensive assessment, competently providing analysis drugs, and communicating with the patient and family allow effective management of pain in the cancer patients. Conclusions: Several approaches can promote adequate management of cancer pain, such as enhancing clinician knowledge of pain syndromes, improving pain assessment, and updating medical information related to pain and symptom control.

L24 ANSWER 53 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued)

(CH2)3-NH2 . PO3H2

• Na

L24 ANSWER 55 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1998:293427 HCAPLUS
DOCUMENT NUMBER: 129:8597
TITLE: Embedding and encapsulation of controlled

Embedding and encapsulation of crelease particles
Van Lengerich, Bernhard H.
Van Lengerich, Bernhard H., USA
PCT Int. Appl., 63 pp.
CODEN: PIXXD2
Patent INVENTOR (S) PATENT ASSIGNEE (S): SOURCE:

DOCUMENT TYPE:

English LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.																	
	9816	610			Al		1998	0507									
		ΑU,															
	RW:	AT,	BE,	CH,	DE,	DK,	ES,	ΡI,	FR,	GB,	GR,	, IE,	IT,	LU,	MC,	NL,	PT,
SE																	
	2269																
	9749									AU :	1997	4991	١5		1	9971	027
AU	7441	156			B2		2002	0214									
EP	9355	23			A1		1999	0818		EP :	1997	9128	325		1	9971	027
EP	9355	23			B1		2004	0929									
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT.	LI.	LU,	NL,	SE,	MC,	PT,
JP	2002	5117	77		T2		2002	0416		JP :	1998	-5205	558		1	9971	027
EP	1342	2548			Al		2003	0910		EP :	2003	1003	11		1	9971	027
	R:	AT.	BE.	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT.	LI,	LU,	NL,	SE,	MC,	PT,
		IE.	FI														
AT	2777 9902 Y API	739			E		2004	1015		AT :	1997	9128	325		1	9971	027
NO	9902	2036			Α		1999	0428		NO :	1999	2036	5		1	9990	428
PRIORIT	Y API	LN.	INFO	. :						US :	1996	2903	88		P 1	9961	028
										us :	1997	527	7P		P 1	9970	716
										ED '	997	9125	25		A3 1	9971	027
										WO :	997	-1151	984		w ı	9971	027

Controlled release, discrete, solid particles which contain an encapsulated and/or embedded component such as a heat sensitive

or readily oxidizable pharmaceutically, biol., or nutritionally active component are continuously produced without substantial

ruction
of the matrix material or encapsulant. A release-rate
controlling component is incorporated into the matrix to
coatrol the rate of release of the encapsulant from the
particles. The addnl. component may be a hydrophobic component or a high
water binding capacity component for extending the release time. The
plasticizable matrix material, such as starch, is admixed with at least
one plasticizer, such as water, and at least one release-rate
controlling component under low shear mixing conditions to
plasticize the plasticizable material without substantially destroying

at least one plasticizable material and to obtain a substantially homogeneous plasticized mass. The plasticizer content is substantial reduced and the temperature of the plasticized mass is substantially

L24 ANSMER 55 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued)
prior to admixing the plasticized mass with the encapsulant to avoid
substantial destruction of the encapsulant and to obtain a formable,
extrudable mixt. The mixt. is extruded though a die without substantial
or essentially no expansion and cut into discrete, relatively dense
particles. Release properties may also be controlled
by precoating the encapsulant and/or coating the extruded particles with

a
film-forming component. An example of encapsulation of acetylcysteine is
given using starch, polyethylene, glycerol monostearate, and vegetable
oil.
17 7414-83-7, Etidronate disodium
RL: PEP (Physical, engineering or chemical process); THU (Therapeutic
use); BIOL (Biological study); PROC (Process); USES (Uses)
(embedding and encapsulation of controlled release
particles)
RN 7414-83-7 MCAPLUS
CN Phosphonic acid, (1-hydroxyethylidene)bis-, disodium salt (9CI) (CA
INDEX
NAME)

OH
H203P— Me
P03H2

REFERENCE COUNT:

5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

```
ACCESSION NUMBER:

1997:105205 HCAPLUS

DOCUMENT NUMBER:

126:122508

Bisphosphonate cement composition to prevent aseptic loosening of orthopedic implant devices

Simpson, Hamish; Athanasou, Nick; Yates, Ashley J.

Merck and Co., Inc., USA; Simpson, Hamish; Athanasou, Nick; Yates, Ashley J.

PATENT ASSIGNEE(S):

PATENT ASSIGNEE(S):

POURMENT TYPE:

PATENT TOPE:

PATENT NO.

KIND DATE APPLICATION NO.

DATE

PATENT TOPE:

PATENT NO.

KIND DATE APPLICATION NO.

DATE

PATENT NO.

KIND DATE APPLICATION NO.

DATE

PATENT NO.

KIND DATE APPLICATION NO.

PATENT NO.

RIN SG, SI, SK, TJ, TM, TT, TJ, UA, US, UZ, VN

RN: KE, LA, MM, SD, SZ, UG, ATT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IT, LU, MD, MG, MM, MX, NO, NZ, PL, RO.

RN. SN, TD, TG

CA 2221450

PA 81756

A1 19980401 EP 1996-2223450

PA 81756

A1 19980401 EP 1996-917041 19960603

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE,

FI

JP 11511041

T2 19990928 JP 1996-501089 19960603

AB Disclosed is a bisphosphonate bone cement for preventing peri-prosthetic bone loss and aseptic loosening of a joint prosthesis in patients, which cement contains a bisphosphonate bone resorption inhibitor, e.g. Na or Ca salt of slendronate and a pharmaceutically acceptable polymeric carriers such as poly/Me methacrylate.) A composition containing Me methacrylate, N, N-dimethyl-p-toluidine, and chlorophyll was added to a composition containing Me methacrylate, N, N-dimethyl-p-toluidine, and chlorophyll was added to give a cement mixture

IT 18595-98-12

RL: BAC (Biological activity or effector, except adverse); BSU

(Biological study); PREP (Preparation); USES (Uses)

(bone implant cements containing bisphosphonate bone resorption inhibitor

and polymaric carrier

RN 18595-98-2 HCAPLUS

CN Phosphonic acid, (4-amino-1-hydroxybutylidene)bis-, disodium salt, monohydrate (9CI) (CA INDEX NAME)
```

L24 ANSWER 56 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS

Journal; (Short Survey) 029 Clinical Biochemistry

Pharmacy

Risedronate Sodium. Drugs of the Future, (1997) 22/7 (799). Refs: 2 ISSN: 0377-8282 CODEN: DRFUD4

> Pharmacology Drug Literature Index

97263326 EMBASE 1997263326

Spain

030

English

RESERVED. on STN ACCESSION NUMBER:

COUNTRY:

LANGUAGE .

DOCUMENT NUMBER:

DOCUMENT TYPE: FILE SEGMENT: 129318-43-0 HCAPLUS Phosphonic acid, (4-amino-1-hydroxybutylidene)bis-, monosodium salt (9CI) (CA INDEX RAME)

C- (CH₂) 3- NH₂ H203P PO3H2

• Na

137504-89-3 HCAPLUS Phosphonic acid. (4-amino-1-hydroxybutylidene)bis-, calcium salt (1:1) (9CI) (CA INDEX NAME)

- (СН2) 3- НН2 POIH2

• Ca

157432-53-6 MCAPLUS
Phosphonic acid, (4-amino-1-hydroxybutylidene)bis-, magnesium salt (9CI)(CA INDEX NAME)

H203P-C- (CH₂)₃-NH₂ POTHS

●x Mg

186090-69-7 HCAPLUS Phosphonic acid, (4-amino-1-hydroxybutylidene)bis-, barium salt (9CI)

L24 ANSWER 58 OF 79
ACCESSION NUMBER:
DOCUMENT NUMBER:
11996:504204 HCAPLUS
125:151223
Bioabeorbable ceramic implants for bone repair
Irie, Hiroyuki
126: Hiroyuki
127: Moreover of the properties of the properti

Patent Japanese

DOCUMENT TYPE: COLUMN TYPE: JAMELY ACC. NUM. COUNT: 1
PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
•	JP 08141067	A2	19960604	JP 1994-282035	19941116
	JP 3476930	B2	20031210		
DDT	DITTY ADDIN INFO .			JP 1994-282035	19941116

The bioabsorbable ceramic implants comprise porous β-tricalcium phosphate block and sustained-release bone resorption-inhibiting drug (1-hydroxyethyliden-1,1-diphosphonic acid). The ceramic implants are useful for bone repair. 2809-21-4, 1-Hydroxyethylidene-1,1-diphosphonic acid RL: THU (Therapeutic use): BIOL (Biological study); USES (Uses) (bioabsorbable ceramic implants for bone repair) 2809-21-4 HCAPLUS Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)

L24 ANSWER 57 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN INDEX NAME) (Continued)

C- (CH₂)₃-NH₂ H203P PO1H2

●х Ва

186090-70-0 HCAPLUS
Phosphonic acid. (4-amino-1-hydroxybutylidene)bis-, sodium salt (2:3)
(9C1) (CA INDEX NAME)

(CH₂)₃-NH₂

●3/2 Na

RESERVED.
on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
1996189161 EMBASE
DOCUMENT NUMBER:
1996189161 EMBASE
199618918 EMBASE
199618918 EMBASE
199618 EMBASE
199618 EMBASE
199618 EMBASE
199618 EMBA

96189161 EMBASE
1996189161
Endocrinology.
Matts N.B.; Blevins Jr. L.S.
Emory University School of Medicine, Atlanta, GA, United
States
Journal of the American Medical Association, (1996) 275/23
(1806-1807).
ISSN: 0098-7484 CODEN: JAMAAP
United States
Journal; (Short Survey)
0037 Endocrinology
037 Drug Literature Index
038 Adverse Reactions Titles
English SOURCE:

COUNTRY: DOCUMENT TYPE: FILE SEGMENT:

LANGUAGE:

L24 ANSWER 60 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS
RESERVED.

ON STN
ACCESSION NUMBER: 96247146 EMBASE
1996247146 Oatcoporosis: The need for comprehensive treatment
guidelines.
AUTHOR: Abbott III T.A.: Lawrence B.J.; Wallach S.
CORPORATE SOURCE: Clinical Therapeutics, 1996; 197(127-149).

SOURCE: Clinical Therapeutics, 1996; 197(127-149).

IOSY COLORY, 1996; 197(127-149).

COLORY, 1997 Object of the property of

L24 ANSMER 61 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS
RESERVED.
ON STN
ACCESSION NUMBER: 96014247 EMBASE
DOCUMENT NUMBER: 1996014247
TITLE: New drugs for osteoporce:
SOURCE: Medica) 1--

LANGUAGE:

96014247 EMBASE
1996014247 EMBASE
1996014247
New drugs for osteoporosis.
Medical Letter on Drugs and Therapeutics, (1996) 38/965
(1-3).
ISSN: 0025-732X CODEN: MELEAP
United States
Journal; (Short Survey)
003 Endocrinology
010 Obstetrics and Gynecology
030 Orthopedic Surgery
036 Health Policy, Economics and Management
030 Pharmacology
037 Drug Literature Index
038 Adverse Reactions Titles
English

£

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L24 ANSWER 62 OP 79 HCAPLUS COPYRIGHT 2005 ACS ON STN
ACCESSION NUMBER: 1996:161211 HCAPLUS
DOCUMENT NUMBER: 124:185591
TITLE: Controlled release oral drug
delivery forms containing hydrogel-forming polymers
Yissum Research Development Co., Israel
PCT Int. Appl., 35 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
English
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

MO 9534294 Al 1 19551221 WO 1995-US7519 19950613
W: AM, AT, AU, BB, BR, PK, CA, CH, CM, CZ, DE, DK, FI, GB, HU, JP,
KP, NO, RU, SD, SE
RM: KE, MM, SD, SZ, AT, BE, CH, DE, ES, FR, GB, IT, LU, MC, SE, BP,
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ANSWER 60 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RVED. (Continued)

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MO 9534294 Al 19951221 WO 1995-US7519 19950613

W: AM, AT, AU, BB, BR, EY, CA, CH, CN, CZ, DE, DK, FI, GB, HU, JP,
KP, RO, RU, SD, SE
RH: KE, MM, SD, SZ, AT, BE, CH, DE, ES, FR, GB, IT, LU, MC, SE, BF,
BJ, MR, NE, SN, TD, TG

IL 110024 Al 1998-0405 IL 1994-110024 19940615

1 1998-0405 AU 1998-2270 199550613
                                                                      19980405
19960105
20040217
                                                                                                         IL 1994-110024
AU 1995-28270
US 1997-750674
US 2003-630918
IL 110024
AU 9528270
US 6692766
US 2004185107
US 2004219216
PRIORITY APPLN. INFO.:
                                                                                                                                                                19970228
                                                                                                                                                                20030731
                                                                           20041104
                                                                                                         US 2003-630917
IL 1994-110024
                                                                                                                                                        A 19940615
                                                                                                         WO 1995-US7519
                                                                                                                                                        W 19950613
                                                                                                         US 1997-750674
                                                                                                                                                        A1 19970228
            The present invention relates to a controlled-release drug delivery system comprising a drug which is susceptible to enzymic degradation by enzymes present in the intestinal tract and a polymeric
             The polymeric matrix which undergoes erosion in the gastrointestinal
             comprises a hydrogel-forming polymer selected from the group consisting
            (a) polymers which are themselves capable of enhancing absorption of the drug across the intestinal mucosal tissues and of inhibiting degradation
            the drug by intestinal enzymes and (b) polymers which are not themselves capable of enhancing absorption of the drug across the intestinal mucosal tissues and of inhibiting degradation of the drug by intestinal enzymes.
            delivery system optionally further comprises an agent which enhances absorption of the drug across the intestinal mucosal tissues and/or an agent which inhibits degradation of the drug by intestinal enzymes. For example, bradykinin was incubated with 0.5% polycarbophil suspension,
             α-chymotrypsin was added to the mixture and the incubation proceeded for addnl. 120 min. Almost no degradation of bradykinin was detected. 40391-39-3
```

40391-99-9
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
[controlled-release oral formulations containing
polymeric matrix for drugs susceptible to enzymic degradation)
40391-99-9 HCAPLUS
Phosphonic acid, (3-amino-1-hydroxypropylidene)bis- (9CI) (CA INDEX

. С— Сн₂— Сн₂— Мн₂

L24 ANSWER 63 OF 79
ACCESSION NUMBER:
1995:554875 HCAPLUS
DOCUMENT NUMBER:
123:40904
Synergism of calcium ethanehydroxybisphosphonate
(CaEMBP) and FeCl3: controlled
release polymere for preventing calcification
of bioprosthetic aortic wall
Vyavahare, Narendra R.; Qu, Xuan; Lee, Michael;
Behari, Priya; Schoen, Frederick J.; Levy, Robert J.
CORPORATE SOURCE:
Department of Pediatrica and Communicable Diseases,
Kresge II. Room 5014, P.O.B. 0576, University of
Michigan Medical School, Ann Arbor, MI, 48109-0576,
USA AUTHOR(S): Department of Pediatrics and communicable Diseases, Kreseg II. Room 5014, P.O.B. 0576, University of Michigan Medical School, Ann Arbor, MI, 48109-0576, USA

SOURCE: Journal of Controlled Release (1995), 34(2), 97-108 CODEN: JCREEC; ISSN: 0168-3659

FUBLISHER: Elsevier Journal English

AB Controlled ralease delivery implants based on ethylene-vinyl acetate (EVA) copolymer were studied for prevention of calcification of aortic wall in an intracirculatory rat allograft model. The calcium salt of ethanehydroxybisphosphonate (CaEHBP) and ferric chloride (FeCl3) were used as anti-calcification drugs either in combination or sep. in solvent-cast EVA films. These matrixes were characterized in vitro for their drug release at 37°C at pH 7.4 (0.05 M HEPES buffer). Inulin was included in the single drug loaded systems as an inert filler to obtain comparable loadings. The films released the drugs in vitro continuously over 50 days without any rapid burst phase. For rat allograft studies controlled release matrixes or non-drug EVA films were autured periadventitially to the aortic wall allografts to study the anticalcification efficacy for 30 days. The calcium and phosphorous levels of the explanted allografts were quantified. Controlled release films releasing both the drugs (CaEHBP) and FeCl3) together synergistically inhibited calcification of the aortic walls. CaEHBP alone releasing from EVA polymer was partially effective, and EVA films releasing only FeCl3 did not inhibit calcification at all. Overall, no adverse effects on somatic growth or recipient bone morphol. were noted following controlled release drug administration.

17 75321-71-6

RL: BAC (Biological activity or effector, except adverse); BSU (Biological) study, unclassified); THU (Therapeutic use); BIOL (Biological study); (Uses)

(synergism of calcium ethanehydroxybisphosphonate and FeCl3:
controlled release polymers for preventing
calcification of bioprosthetic sortic wall)
75323-71-6 HCAPLUS
Phosphonic acid, (1-hydroxyethylidene)bis-, calcium salt (9CI) (CA INDEX NAME)

L24 ANSWER 63 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued) Ov Ca

RESERVED.

on STN

ACCESSION NUMBER: 96002869 EMBASE 1996002869 DOCUMENT NUMBER: Palliative care: Cancer pain management. Palliative care: Cancer pain management. Glare P.
Dept. of Medical Oncology/Pall. Care, Westmead Hospital, Westmead, NSW, Australia Modern Medicine of Australia, (1995) 38/12 (36-51). ISSN: 1030-3782 CODEN: MMAUB7 Australia CORPORATE SOURCE: SOURCE: COUNTRY: Australia

Journal; (Short Survey)

1006 Internal Medicine

1008 Neurology and Neurosurgery

1016 Cancer

1024 Anesthesiology

1037 Drug Literature Index DOCUMENT TYPE: FILE SEGMENT: Drug Literature index
UAGE: English
ARY LANGUAGE: English
Intractable pain should no longer be feared as the inevitable consequence
of advanced cancer. For the vast majority of patients, cancer pain can be
controlled by following a four-point approach based on correct assessment
of the pain mechanisms and the patient's psychological state. Reducing LANGUAGE: SUMMARY LANGUAGE: the
noxious stimulus and attending to psychosocial problems are the
cornerstones of the treatment plan. Sometimes opioid analgesics like
morphine are also required. Not all types of pain responds well to
opioids, and adjuvant analgesic drugs are then required. Techniques such
as nerve blocks and surgery have a place in selected cases.
Practicalities

of each of these aspects are discussed in this article.

L24 ANSWER 64 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS

L24 ANSWER 65 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS

on STN ACCESSION NUMBER:

94113826 DOCUMENT NUMBER:

Slow-release sodium fluoride in the management of postmenopausal osteoporosis: A randomized controlled TITLE:

trial. AUTHOR:

SOURCE:

COUNTRY: DOCUMENT TYPE: FILE SEGMENT:

CORPORATE SOURCE:

Postmenopausal osteoporosis: A randomized Controlled

Pak C.Y.C.; Sakhaee K.; Piziak V.: Peterson R.D.; Breslau
N.A.; Boyd P.; Poindexter J.R.; Herxog J.; Heard-Sakhaee
A.; Haynes S.; Adama-Huet B.; Reisch J.S.

Texas Southwestern Med. Ctr. Univ., 5323 Harry Hines
Boulevard, Dallas, TX 75235-8885, United States
Annale of Internal Medicine. (1994) 120/8 (625-632).

ISSN: 0003-4819 CODEN: AIMEAS

United States
Journal: Article
003 Endocrinology
006 Internal Medicine
033 Orthopedic Surgery
037 Drug Literature Index
038 Adverse Reactions Titles
English

LANGUAGE: English SUMMARY LANGUAGE:

Objective: To test whether intermittent treatment with slow-release

fluoride and continuous calcium citrate supplementation inhibits

thuoride and continuous calcium citrate supplementation. Infinities bebral fractures without causing fluoride complications. Design: A placebocontrolled, randomized trial. Setting: Outpatient setting of specialty clinics in Dallas and Temple, Texas. Interventions: Slow-release sodium fluoride (25 mg twice daily) in repeated 14-month cycles (12 months on treatment followed by 2 months off treatment) compared with placebo. Both groups took calcium citrate (400 mg calcium twice daily) continuously. Patients: 110 patients with postmenopausal osteoporosis were randomly assigned to two groups. In the slow-release sodium fluoride group, 48 of 54 patients completed more than 1 cycle of treatment (mean, 2.44 cycles/patient), whereas 51 of 56 patients in the placebo group completed at least 1 cycle (mean, 2.14 cycles/patient) in this interim analysis. Measurements: Vertebral fracture rate and lumbar bone mineral content. Vertebral fractures were quantified from yearly radiographs. Bone mass

determined annually by densitometry. Results: In the sodium fluoride group, the mean L2 to L4 bone mineral content increased by 4% to 6% in each cycle and the mean femoral neck bone density increased by 4.1% and 2.1% during the first two cycles, but the radial bone density did not change. The placebo group showed no statistical change in bone mass at

site. Compared with the placebo group, the sodium fluoride group had a lower individual new vertebral fracture rate (0.057/patient cycle

with 0.204/patient cycle, P = 0.017), a higher fracture-free rate (83.3% compared with 64.7%, P = 0.042), and a lower group fracture rate (0.085/patient cycle compared with 0.239/patient cycle, P = 0.006). The side-effect profile was similar for the two groups; no patient developed microfractures, hip fractures, or blood loss anemia. Conclusions: Intermittent slow-release sodium fluoride plus continuous calcium

citrate.

administered for about 2.5 years, inhibits new vertebral fractures, increases the mean spinal bone mass without decreasing the radial shaft

L24 ANSWER 66 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1993:434350 HCAPLUS
1993:434350 HCAPLUS
119:34350
Risedronate enteric-coated sustained-release compositions
INVENTOR(S): Dansereau, Richard John; Mosher, Russell Youker;
Axelrod, Douglas Mayne; Sietsema, William Kendall
PATENT ASSIGNEE(S): Procter and Gamble Pharmaceuticals, Inc., USA:
CODEN: PIXXD2
DOCUMENT TYPE: Patent

DOCUMENT TYPE: Patent English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT INFORMATION:

PATENT NO.

KIND DATE

APPLICATION NO.

DATE

APPLICATION NO.

MO 9309785

A1 19930527

WO 1992-US9385

19921102

W: AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MG, MN, MM, NO, PL, RO, RU, SD

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE, BF, BJ, CP, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG

AU 9210604

A1 19930615

AU 1992-30604

A1 19930615

AU 1992-30604

A1 19930615

AU 1992-30604

A1 19940907

EP 1992-924208

BP 613373

B1 20000802

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, SE

JP 07501073

T2 19950202

JP 1993-509287

AU 1994-1357

BR 9206797

A 19951031

BR 9206797

A 19951031

BR 9206797

A 19951031

BR 922-6797

BR 1994-1357

CZ 222760

CA 2122479

C 19980825

CA 1992-2122479

C 19980825

CA 1992-2122479

SK 279589

B6 1997017

SK 279589

B6 19990111

SK 1994-27277

19921102

ES 2149781

T3 2000116

ES 1992-924208

19921102

B1 20403337

A 1993118

ZA 1993-3337

19930513

IL 105714

A1 19970610

IL 1993-105714

IL 105714

A1 19970610

IL WO 1992-US9385 A 19921102 US 1994-307495 A1 19940914 US 1997-820430 A1 19970312 US 1999-303466 A1 19990430 A1 20000609

AB Oral enteric-coated and sustained-release dosage forms

L24 ANSWER 65 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED. (Continued) bone density, and is safe to use.

ANSWER 66 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued) of risedronate are disclosed. The dosage forms protect the epithelial

mucosal tissues of the buccal cavity, pharynx, esophagus, and stomach

irritation and deliver the drug to the lower intestinal tract of the mammal. Round-shaped tablets contg. 30 mg risedronic acid Na were coated with a coating suspension contg. Eudragit L30D 33.400, PEG 1.000, talc 2.500, yellow iron oxide 0.034, simethicone emulsion 0.800, and water 75.000 mg to obtain enteric-coated sustained-release tablets.

115436-72-1
RI: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (pharmaceuticals containing, enteric-coated and sustained -release)

115436-72-1 HCAPLUS
Phosphonic acid, [1-hydroxy-2-(3-pyridinyl)ethylidene]bis-, monosodium

Phosphonic acid, [1-hydroxy-2-(3-pyridinyl)ethylidene]bis-, monosodium palt (9CI) (CA INDEX NAME)

● Na

L24 ANSWER 67 OF 79 MEDLINE ON STN DUPLICATE 2
ACCESSION NUMBER: 94002882 MEDLINE
DOCUMENT NUMBER: 5199967
Synergistic inhibition of the calcification of subdermal model by FeCl3 and ethanehydroxydiphosphonate: preincubation and polymeric controlled release studies. AUTHOR: Hirsch D; Drader J; Pathak Y V; Yee R; Schoen F J; Levy R CONTRACT NUMBER: SOURCE: PUB. COUNTRY: DOCUMENT TYPE: LANGUAGE: FILE SEGMENT: Entered Medline: 19931124

B Calcification is a frequent cause of the clinical failure of bioprosthetic heart valves fabricated from glutaraldehyde-pretreated porcine sortic valves or glutaraldehyde-pretreated bovine pericardium (GPBP). Me investigated the hypothesis that ferric chloride (FeCl3) and sodium-ethanehydroxydiphosphonate (EHDP) may act synergistically to prevent bioprosthetic tissue calcification. Pre-incubations and controlled release systems were studied individually. FeCl3-EHDP polymeric controlled release metrices were formulated using silicone rubber and evaluated for in vitro release kinetics at pH 7.4 and 37 degrees C. The effects of Fe-EHDP synergism on GPBP calcification were investigated with 21 d subdermal implants in 3 wk-old male rats. Results demonstrated that levels of Fe3+ and EHDP uptake, measured in GPBP rissues pre-incubated first in an FeCl3 solution (10(-5) M) followed by an EHDP solution (0.1 M), were higher than in the reverse order of incubation. In the first series of rat implants, GPBP was pre-incubated in either FeCl3 or NaZEHDP solutions, or sequential pre-incubations of first FeCl3 and then NaZEHDP solutions, or the reverse. reverse.

The inhibition of calcification was greatest when FeCl3 (first pre-incubation, 10(-5) M) was combined with NaZEMDP (second pre-incubation, 0.1 M) (1.78 +/- 0.2 micrograms of Ca2+/mg of dried tissue) compared with the other pre-incubation groups: ENDP (first pre-incubation) combined with FeCl3 (second pre-incubation) (21.7 +/- 6.4), FeCl3 solution alone at 10(-5) M (27.9 +/- 10.7), NaZEMDP solution alone at 0.1 M (52.3 +/- 11.9) and the control group (72.3 +/- 10.2). In a second series of implants, GPBP specimens were co-implanted with individual controlled release systems containing one of the following formulations (weight percentage in silicone rubber): 1% PeCl3-20% CaEMDP, 20% protamine sulphate. 1% PeCl3-20% CaEMDP, and 1% PeCl3-20% protamine sulphate. The 1% PeCl3-20% CaEMDP sall cone-rubber matrices were the most effective for inhibiting GPBP mineralization (13.7 +/- 3.0 micrograms Ca2+/mg of dried tissue) compared with non-drug silicone co-implant controls (74.7 +/- 5.5% micrograms Ca2+/mg of dried tissue) compared with non-drug silicone co-implant controls (74.7 +/- 5.5% micrograms Ca2+/mg of dried tissue) and other polymeric treatment groups (32.3 +/- 2.3-80.0 +/- 19.7).

No adverse effects on bone or overall growth of any treatment protocols

L24 ANSMER 68 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued) of the refillable reservoir system are its const. (zero-order) rate of EHDP release and its potential for replenishment of EHDP by noninvasive means when the EHDP soln. inside the reservoir has been depleted.

IT 2009-21-4

PL. BIOL (Palesiar) cradult RL: BIOL (Biological study)
(controlled and site-specific delivery of, from refillable polyurethane uretname
reservoirs for inhibiting bioprosthetic heart valve calcification)
2809-21-4 HCAPEUS
Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)

DUPLICATE 2

L24 ANSWER 67 OF 79

MEDLINE on STN

were noted. Thus, combinations of FeCl3 and EHDP, using either pre-incubations or polymeric controlled release, were synergistic for inhibiting GPP calcification.

L24 ANSWER 68 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1993:546496 HCAPLUS
DOCUMENT NUMBER: 1993:546496
Site-specific delivery of ethanehydroxy diphosphonate
from refillable polyurethane reservoirs to inhibit
bioprosthetic tissue calcification
AUTHOR(S): Jchnston, T. P.; Webb, C. L.; Schoen, F. J.; Levy, R. ORATE SOURCE:

COll. Pharm., Univ. Illinois, Chicago, IL, USA
Journal of Controlled Release (1993), 25(3), 227-40
CODEN: JCREEC; ISSN: 0168-3659
JOURNAL
UAGE:

English
Calcification (CALC) is the most frequent cause for the failure of
bioprosthetic heart valves fabricated from glutaraldehyde-pretreated
porcine aortic valve, and contributes to the failure of glutaraldehyde
pretreated bowine pericardial (BMV) bioprosthetic heart valves as well.
Although systemic therapy in rats using ethanehydroxy diphosphonate
P) CORPORATE SOURCE: SOURCE: DOCUMENT TYPE: LANGUAGE: (EHDP has proven successful in inhibiting CALC, adverse effects on serum calcium, bone development, and overall somatic growth have been noted. The present study was designed to evaluate the potential of site-specific delivery of EMDP to arrest CALC of glutaraldehyde-pretreated bovine pericardium when implanted subdermally in rats using a refillable reservoir drug delivery device. The refillable reservoir devices evaluated in these studies exhibited constant (zero-order) release of EHDP in vitro and replenishment of the drug supply when implanted subdermally in rats was achieved in a noninvasive (ashion using an exteriorized entrance and exit cannula. The refillable reservoirs evaluated were fabricated from a com. available polyurethane (Biomer). Glutaraldehyde-pretreated bovine pericardium was implanted subdermally in 21-day-old rats either alone (control) or with refillable Biomer reservoirs with (treatment) or without (sham) a 2 M solution of Na2EHDP. Implanted reservoirs which initially contained a 2 M solution of Na2EHDP refilled with a fresh 2 M solution of Na2EHDP on days 7 and 14 surgery using a syringe and the exteriorized entrance and exit cannulas.

Pericardium retrieved following 21 days and assayed for calcium showed significant inhibition in CALC for tissue implanted adjacent to refillable Blomer reservoirs containing EHDP (6.9 μ g/mg) compared to control (179.0 \pm 13.5 μ g/mg) and sham-implanted (152.0 \pm 10.2 μ g/mg) rats. Unimplanted pericardium had a mean tissue calcium concentration of 3.0 \pm $\mu g/mg$. Based on the in vitro release studies of EHDP from refillable Biomer reservoirs, the estimated dose delivered when implanted Biomer reservoirs, the estimated dose delivered which reservoirs, the estimated dose delivered which reservoirs, the estimated services are in the present study was 5.5 ± 0.7 mg/kg per day. For rats implanted with EHDP-containing refillable reservoirs, histol. mination of retrieved pericardium and femurs from rats in each group confirmed both complete inhibition of CALC of the glutaraldehyde crosslinked pericardium and no unroward effects on bone development, resp. In addition, blood samples obtained at sacrifice showed no change in serum Ca2+ concns. in EHDP-treated animals compared to controls. Thus, the site-specific delivery of EHDP using refillable Bloomer reservoirs was successful for inhibiting BHV CALC in a rat subdermal model with no untoward effects on bone development, serum Ca2+ concns., or overall growth. The advantages L24 ANSWER 69 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

OR STN ACCESSION NUMBER:

DOCUMENT NUMBER:

TITLE:

91269515 EMBASE
1993269535
Controlled release diphosphonate
adventitial implants for prevention of aortic valve
allograft calcifications.
Qu X.: Trachy J.: Jurva J.: Underwood T.: Levy R.J.
Univ of Michigan Medical School AUTHOR: CORPORATE SOURCE:

SOURCE:

United States
Proceedings of the Controlled Release Society, (1993) -/20 (125-126).

CODEN: SBGMAH
United States
Journal; Conference Article
018 Cardiovascular Diseases and Cardiovascular Surgery
030 Pharmacology
037 Drug Literature Index
English COUNTRY: DOCUMENT TYPE: FILE SEGMENT:

English LANGUAGE:

L24 ANSWER 71 OF 79 HCAPLUS COPYRIGHT 2005 ACS ON STN ACCESSION NUMBER: 1991:520060 HCAPLUS DOCUMENT NUMBER: 115:120060
Diaddium pamidronate double-con-

115:120060
Dimodium pamidronate double-coated granules
Wirth, Dagmar; Bucher, Christian
Ciba-Geigy A.-G., Switz.
Can. Pat. Appl., 16 pp.
CODEN: CPXXEB INVENTOR(S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: Patent English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PAT	ENT NO.		K	IND	DATE		API	PLICAT	ION	NO.		DA	TE	
			-									~ -		
CA	2024631			A.A	1991	0308	CA	1990-	2024	631		19	900905	
CA	2024631			С	2000	1121								
EP	421921			A1	1991	0410	EP	1990-	8106	61		19	900830	
EP	421921			81	1994	0427								
	R: AT	, BE,	CH, D	E, DK	, ES.	FR,	GB, G	R, IT,	LI,	LU,	NL,	SE.		
AT	104856			E	1994	0515	AT	1990-	8106	61		19	900830	
ES	2052228			T3	1994	0701	E5	1990-	8106	61		19	900830	
IL	95558			A1	1995	0831	IL	1990-	9555	8		19	900831	
PI	93169			В			FI						900903	
PI	93169			c	1995	0310								
US	5096717	,					US	1990-	5774	20		19	900904	
, DD	298049			A5	1992	0206	DD	1990-	3438	41		19	900905	
NO	9003892			A	1991	0308	NO	1990-	3892			19	900906	
	176646			В		0130								
NO	176646			c	1995	0510								
	9062283			A1		0314	AU	1990-	6228	3		19	900906	
	623036			B2	1992	0430								
	0309901	6		A2	1991	0424	JP	1990-	2346	18		19	900906	
	3009713			B2	2000	0214								
	9007100			A	1991	0529	2.A	1990-	7100			19	900906	
	59008			A.2		0428		1990-				19	900906	
	207447			B		0428								
PRIORITY					1373	0420	CH	1989-	3245			19	890907	
PRIORITI	APPLIN.	INFO					C.,	1,0,			•	•		
							EP	1990-	8106	61	А	19	900830	

AB

A controlled-release granule comprises di-Na pamidronate.5H2O (I) which is coated with a hydrophilic, elastic inner coating and a gastric juice-resistant intestinal juice-soluble outer

coating.

Controlled-release granule core pellets contained I

197.3, Avicel PH105 53.7 mg/each; inner coating contained cellulose HP-M

603 10.0, polyethylene glycol 2.0, and talc 8.0 mg/each; and outer

coating contained Eudragit L30D 90.0, tri-Et citrate 21.0, Antifoam AF 2.0, and

talc 7.0 mg/each. 109552-15-0 IT

109552-15-0
RL: BIOL (Biological study)
(controlled-release pharmaceutical
granules containing)
109552-15-0 HCAPLUS

Phosphonic acid, (3-amino-1-hydroxypropylidene)bis-, disodium salt, pentahydrate (9CI) (CA INDEX NAME)

L24 ANSWER 70 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.
ON STN
ACCESSION NUMBER: 93072251 EMBASE
DOCUMENT NUMBER: 1993072251
TITLE: 1993072251 [Myths about dibudes: 1993072251]

93072251 EMBASE 1993072251 [Mytha about dihydrocodiene as an analgesic in cancer

AUTHOR: CORPORATE SOURCE:

| Mythe about dihydrocodiene as an analgesic in cancer pain] | NoCH | MMER 'BLUMEN' PALSCHE VORUTEILE. DIHYDROCODEIN ALS KREBS-SCHMERZBREMSE. | NoCH | MMER 'BLUMEN' PALSCHE VORUTEILE. DIHYDROCODEIN ALS KREBS-SCHMERZBREMSE. | NoCH | N

COUNTRY: DOCUMENT TYPE: FILE SEGMENT:

LANGUAGE: SUMMARY LANGUAGE: German English; German

ANSWER 71 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued)

сн₂-- сн₂-- кн₂ PO3H2

●2 Na

●5 H₂O

L24 ANSWER 72 OF 79 HCAPLUS COPYRIGHT 2005 ACS ON STN ACCESSION NUMBER: 1992:181009 HCAPLUS DOCUMENT NUMBER: 116:181009 DOCUMENT NUMBER: TITLE: Characterization and anticalcification effects of implantable polyurethane matrixes containing dispersion of bisphosphonic acid Golomb, Gershon: Wagner, David Sch. Pharm., Hebrew Univ., Jerusalem, 91120, Israel Clinical Materials (1991), 6(1-2), 33-42 CODEN: CLNME2; ISSN: 0267-6605 AUTHOR (S) CORPORATE SOURCE: SOURCE: MENT TYPE: Journal
UNGE: English
Cardiovascular calcification, the formation of calcium phosphate DOCUMENT TYPE: ites
in cardiovascular tissue, is a common-end stage phenomenon affecting a
wide variety of cardiovascular disease states and causing the dysfunction
of many different types of biomaterial implants. The present
investigation describes the formulation, characterization, and the inveitigation describes the total inveits inveits of prolonged controlled-release polyurethane efficacy of prolonged controlled-release polyurethane matrixes containing the anticalcification agent 1,1-hydroxyethylidene bisphosphonic acid (HEBP). Sustained-release polyurethane (PU) matrixes with amorphous dispersion of the drug, in its free acid form, were obtained. Matrixes morphol. and release kinetics were solvent and concentration dependent. All HEBP matrixes (co-implanted subdermally in rats with the calcifiable bioprosthetic heart valve rimgue) e) significantly inhibited timmure calcification (76.3 µg/mg Ca2+ in comparison to 1.1-10.1 µg/mg Ca2+, untreated and treated groups, resp.). Systemic side effects were noted only in the rats implanted with the 30% weight/weight HEBP matrixes. It is concluded that PU matrixes amorphous dispersion of HEBP provided effective and sustained anticalcification properties.
2809-21-4
RL: BIOL (Biological study)
 (anticalcification effects and controlled release of, from polyurethane implants)
2809-21-4
HORPLUS
Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)

L24 ANSWER 74 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
1990089191 EMBASE
DOCUMENT NUMBER:
1990089191 Company Company

90089191 EMBASE
1990089191 Controlled release of ethanehydroxy
diphosphonate from polyurethane reservoirs to inhibit
calcification of bovine pericardium used in bioprosthetic

AUTHOR:

CORPORATE SOURCE:

calcification of bovine pericardium used in bioprosthetic heart valves.
Johnston T.P.; Boyd J.A.; Ciesligs B.L.; Schoen F.J.;
Amidon G.; Levy R.J.
Department of Pediatrics and Communicable Disease,
University of Michigan, Ann Arbor, MI 48109, United States
International Journal of Pharmaceutics, (1990) 59/2
(95-104).
ISSN: 0376-5173 CODEN: IJPHDE
Netherlands
Journal; Article
030 Pharmacology
037 Drug Literature Index
English
English

SOURCE:

COUNTRY:

DOCUMENT TYPE: FILE SEGMENT:

Drug Literature Index

BUAGE: English

GARY LANGUAGE: English

Calcification (CALC) of bioprosthetic heart valves (BHVs) fabricated from either glutaraldehyde-pretreated bovine pericardial tissue or porcine acortic valves is the most frequent cause of clinical failure of these devices. Previous studies have demonstrated that calcification is inhibited by diphosphonate compounds released into the vicinity of bioprosthetic tissue implanted subcutaneously in rats. Controlled released into the vicinity of bioprosthetic tissue implanted subcutaneously in rats. Controlled released of the anticalcification agent ethanehydroxy diphosphonate (EHDP), as a 1:1 mixture of Na2EHDP and CaEHDP from cylindrical polyurethane (PU) reservoirs (o.d. = 0.36 cm, i.d. = 0.33 cm, length = 4 cm) fabricated by solvent casting was assessed in vitro and in vivo. The diffusivity (D), determined independently using standard diffusion cells, for ionic EHDP diffusion across the PU membrane was 1.2 x 10-10 cm2/a. Volume influx of buffer into the reservoirs in vitro was observed experimentally to reach a maximum at 7.8 days (288 ± 44µ1) with a biexponential decline to 147 ± 6 µl at 70 days. The cumulative EHDP released in vitro after 70 days was 4.2 ± 0.6% (4.8 ± 0.7 mg) compared to 15.7 ± 3.24 (16.1 ± 3.7 mg) in vivo (subcutaneously in 3 week-old, male, CD rats) over 21 days. The release rate of EHDP from the reservoirs was not a zero-order process. Reservoir administration of EHDP effectively inhibited pericardial BHV-CALC in 21-day subdermal explants (Ca2 + 4.5 ± 1.4 mg Ca2+/mg tissue; control, Ca2 + 120 ± 13 mg Ca2+/mg tissue; control, Ca2 + 120 ± 13 mg Ca2+/mg tissue; control, Ca2 + 120 ± 13 mg Ca2+/mg tissue; control, Ca2 + 120 ± 13 mg Ca2+/mg tissue; control, Ca2 + 120 ± 13 mg Ca2+/mg tissue; control, Ca2 + 120 ± 13 mg Ca2+/mg tissue; control, Ca2 + 120 ± 13 mg Ca2+/mg tissue; control, Ca2 + 120 ± 13 mg Ca2+/mg tissue; control, Ca2 + 120 ± 13 mg Ca2+/mg tissue; control, Ca2 + 120 ± 13 mg Ca2+/mg tissue; control, Ca2 + 120 ± 13 mg Ca2+/mg

L24 ANSWER 73 OF 79 HCAPLUS COPYRIGHT 2005 ACS ON STN ACCESSION NUMBER: 1990:412041 HCAPLUS DOCUMENT NUMBER: 113:12041
TITLE: Controlled-release implants for

AUTHOR (S):

CORPORATE SOURCE:

Controlled-Telease implants for cardiovascular disease Levy, Robert J.: Johnston, Thomas P.; Sintov, Amnon; Golomb, Gershon Div. Pediatr. Cardiol., C.S. Mott Child. Hosp., Ann Arbor, MI, 48109, USA Journal of Controlled Release (1990), 11(1-3), 245-54 CODEN: JCREEC; ISSN: 0168-3659 Journal Journal of Controlled Release (1990), 11(1-3), 245-54 CODEN: JCREEC; ISSN: 0168-3659 SOURCE:

Journal

DOCUMENT TYPE: English ANGUAGE:

UAGE: English
The systemic thrappy of many cardiovascular diseases is often hampered by
adverse drug effects. The use of controlled-release
implants as a means for optimizing drug conces. at the affected site and
in the cardiovascular system, while using a relatively low systemic dose,
was examined Controlled-release systems were prepared by
combining a drug of choice with either a non-degradable polymer, such as

silicone rubber, polyurethane, and ethylene vinylacetate, or a biodegradable compound such as poly(glycolic-lactic acid) or a

high-mol.-weight

proper adapte compound such as poly(glycolic-lactic acid) or a polyanhydride. Controlled-release matrixes containing ethylenehydroxydiphosphonate (EMDP), when implanted next to a bioprosthetic heart valve leaflet, prevented pathol. calcification. Similarly, controlled-release matrixes containing lidocaine-HCl were used exptl. as epicardial implants to convert ventricular tachycardia to normal sinus rhythm in dogs. Future controlled-release systems for cardiovascular use will very likely incorporate innovative design features including: a reservoir configuration to replenish or change drug therapy, modulatable drug release to vary drug dosing as desired, and closed-loop feedback to increase or decrease release rates in response to disease status. 7414-83-7

7414-83-7
RL: BIOL (Biological study)
(polymer implants for controlled-release of, for cardiovascular disease treatment)
7414-83-7 HCAPLUS

Phosphonic acid, (1-hydroxyethylidene)bis-, disodium salt (9CI) (CA

NAME)

L24 ANSWER 75 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS
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ON STN

ACCESSION NUMBER:
DOCUMENT NUMBER:
1989148836 EMBASE
TITLE:
Controlled release of

B9148836 EMBASE
1989148836 EMBASE
1989148836 EMBASE
1989148836 The Controlled release of
1-hydroxyethylidene diphosphonate: In vitro assessment and
effects on bioprosthetic calcification in sheep tricuspid
valve replacements.
Johnston T.P.; Bove E.L.; Bolling S.F.; Boyd J.A.;

CORPORATE SOURCE:

SOURCE:

COUNTRY: DOCUMENT TYPE: PILE SEGMENT: LANGUAGE: SUMMARY LANGUAGE:

OR: Johnston T.P.; Bove E.L.; Bolling S.P.; Boyd J.A.;

ligs

B.L.; Amidon G.L.; Schoen F.J.; Levy R.J.

Department of Pediatrics and Communicable Disease, C.S.

Mott Children's Hospital, University of Michigan Medical

Center, Ann Arbor, M1 4819-0576, United States

CE: International Journal of Pharmaceutics, (1989) 52/2

(139-148). ISSN: 0378-5173 CODEN: IJPHDE

TRY: Netherlands

MENT TYPE: Journal

SEGMENT: 037 Drug Literature Index

UAGE: English

ARY LANGUAGE: English

Calcification (CALC) is the most frequent cause of the clinical failure

bioprosthetic valves (BHV's). Controlled-release (paravalvar) administration of the anticalcification agent ethanehydroxydiphosphonate (EHDP), as either Na2EHDP or in combination (1:1) with the less soluble CaEHDP, from a silicone rubber matrix (20%

EHDP) was studied both in vitro and in vivo for the prevention of BHV CALC. Seventeen sheep (6-7 months old, male, Suffolk) underwent tricuspid valve replacement using Hancock I, 25 mm porcine aortic bioprostheses.

explant evaluation after 16-20 weeks revealed that two of the 7 control BHV were caldified (139 ± 20.8 mg Ca2*/mg of tissue), while none of the 9 BHV retrieved from animals receiving controlled release EHPO demonstrated CALC (4.41 ± 1.09 mg Ca2*/mg of tissue). No adverse effects of EHDP on bone or calcium metabolism were noted. The cumulative percent of EHDP released per electron microprobe analysis was 40.44 ± 9.68 (Ns. CaEHDP) to 79.0% ± 4.82 (Ns2EHDP) in vivo compared to 35.7% ± 7.72 and 78.6 ± 11.1 in vitro, respectively. Assessment of the Young's modulus (Y) using momechanical analysis (TMA) revealed s 1.5-fold (Silastic Q7-4840) to 9.5-fold (Silastic Q7-840) plymer matrices ranged from 2.84 × 104 to 5.57 × 105 dyme/cm2. In vitro osmotic related matrix swelling of the Ns2EHDP loaded, unsealed matrices (200 w/w) after 75 days was minimized to a 35.8% increase in weight due to coincorporation of CaEHDP with Ns2EHDP in a 1:1 ratio and was further reduced (22.2% increase in weight) by sealing 76%

the releasing surface, compared to Na2EHDP matrices which demonstrated a 414% and 141% increase in weight, respectively.

L24 ANSWER 76 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

OR STN ACCESSION NUMBER:

88270653 EMBASE

DOCUMENT NUMBER:

TITLE:

88270653 Erosus
1988270651
Local controlled release of
1-hydroxyethylidene diphosphonate using silicone-rubber
matrices. Effects of sterilization on in vitro release and

AUTHOR:

CORPORATE SOURCE:

matrices. Effects of sterilization on in vitro release and in vivo efficacy. Johnston T.P.; Bove E.L.; Bolling S.P.; Schoen F.J.; Boyd J.A.; Golomb G.; Levy R.J. Department of Pediatrics and Communicable Diseases, Division of Pediatric Cardiology, C.S. Mott Children's Hospital, University of Michigan, Ann Arbor, MI

48109-0576.

COURCE .

COUNTRY:

NT TYPE:

PILE SEGMENT

Cardiovascular Diseases and Cardiovascular Surgery Rehabilitation and Physical Medicine Biophysics, Bioengineering and Medical Instrumentation Pharmacology Drug Literature Index

United States
ASAIO Transactions, (1988) 34/3 (835-838).
ISSN: 0889-7190 CODEN: ASATEJ
United States
Journal
018 Cardiovascular Diseases and Cardiov
19 Rehabilitation and Physical Medicir
027 Biophysics, Bioengineering and Medi

030

LANGUAGE:

SUMMARY LANGUAGE:

UNU PROFESSIONS

ONT Drug Literature Index
English
ARY LANGUAGE: English
Calcification (CALC) is the most frequent cause of the clinical failure

bioprosthetic heart valves (BHVs). Comtrolled release of disodium ethanehydroxydiphosphonate (EHDP) has been demonstrated to inhibit subdermal BHV calcification at effective low local doses, iding adverse effects. However, the eventual circulatory use of comtrolled release EHDP necessitates addressing several critical issues that may affect efficacy. These include the effects of sterilization on EHDP release and the efficacy of sustained release matrices containing CaEHDP, which is less soluble than NaEHDP. The effects of CaEHDP-NaEHDP incorporation and steam sterilization on controlled release of EHDP from silicone-rubber matrices was studied both in vitro and in vivo using a

subdermal model and sheep tricuspid valve replacements. Autoclaved EHDP matrices (20% wt/wt) released 88.9% ½ 7.84 of contained drug after 140 days in vitro, compared with control (87.6% ½ 10.3 cumulative release). Autoclaved EHDP matrices completely inhibited BHV CALC in 60 day rat subdermal implants (8.84 ½ 3.68 µg Ca++/mg tissue), comparable to nonsterilized EHDP-loaded matrices (7.06 ½ 2.00 µg Ca+-/mg tissue). Nontreated CALC levels were 183 ½ 7.60 µg Ca+-/mg tissue. Na-CaEHDP co-incorporation into silicone rubber matrices markedly prolonged controlled release with the 1:1 Na-CaEHDP mixture demonstrating an extrapolated release duration of approximately

years, assuming the total amount of dispersed drug was released. Data

tricuspid valve replacements in sheep demonstrate erratic control celcification (41.3 ½ 14.9 µg Ca++/mg tissue), but complete suppression of BNV calcification with NaZEMPD controlled release (5.74 ½ 1.35 µg Ca++/mg tissue) after 150 days.

L24 ANSWER 77 OF 79 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1988:498604 HCAPLUS
DOCUMENT NUMBER: 1998:04 Controlled release of
diphosphonates from synthetic polymers to inhibit colcification
AUTHOR(S): GGlomb, Gershon
CORPORATE SOURCE: Sch. Pharm., Hebrew Univ. Jerusalem, Jerusalem,

CORPORATE SOURCE: 91120,

Israel SOURCE:

DOCUMENT TYPE:

LANGUAGE: AB A re

Jarael

JRCE: Journal of Biomaterials Applications (1987), 2(2),
266-89

CODEN: JBAPEL; ISSN: 0885-3282

JOURNAI; General Review

KULAGE: English

A review with 39 refs. on formulation and evaluation of controlled

-release drug delivery system for diphosphonates to inhibit
bioprosthetic heart valve calcification.

2805-21-4D, 1-Hydroxyethanediphosphonic acid, derivs.

RL: PROC (Process)

(controlled release of, from polymers, for
inhibition of calcification of bioprosthetic heart valves)
2809-21-4 HCAPELS

Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)

L24 ANSWER 76 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED. (Continued)

L24 ANSWER 78 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.
ON STN
ACCESSION NUMBER:
DUPLICATE 5
1987036698 EMBASE
DOCUMENT NUMBER:
1987036698 Controller

B7036698 EMBASE
1987036698 EMBASE
1987036698 EMBASE
Controlled release of diphosphonate to
inhibit bioprosthetic heart valve calcification:
Dose-response and mechanistic studies.
Golomb G.; Langer R.; Schoen F.J.; et al.
Department of Pediatrics, Harvard Medical School, Boston,
MA 02115, United States
Journal of Controlled Release, (1986) 4/3 (181-194).
CODEN: JCREEC
Netherlands
Journal AUTHOR: CORPORATE SOURCE:

COUNTRY: DOCUMENT TYPE: FILE SEGMENT: Journal 037 030 Drug Literature Index

Pharmacology Cardiovascular Diseases and Cardiovascular Surgery

LANGUAGE:

L24 ANSWER 79 OF 79 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS
RESERVED.
ON STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
AUTHOR:
CORPORATE SOURCE:
United

States
COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS
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1995 85192958 EMBASE 1985192958 Bioefficient products. A novel delivery system. Tossounian J.L.; Mergens W.J.; Sheth P.R. Pharmacy R & D, Hoffmann-La Roche, Nutley, NJ 07110,

CORPORATE SOURCE: Pharmacy R & D, Hoffmann-La Roche, Nutley, No VIIV.
United States
SOURCE: Drug Development and Industrial Pharmacy, (1985) 11/5 (1019-1050).
CODEN: DDIPDB
COUNTRY: United States
DOCUMENT TYPE: Journal
FILE SEGMENT: 037 Drug Literature Index
030 Pharmacology
048 Gastroenterology
LANGUAGE: English
AB Studies have shown that a bioefficient/HBS(TM) dosage form is more bioavailable than the conventional product. This is true with compounds which are absorbed from the upper portion of the small intestine or intended to act in the stomach contents. The increase in bioavailability is due to the design of this delivery system which is based on the HBS(TM) having a prolonged retention in the stomach, as shown by scintillation studies. Vitamins evaluated in these experiments include riboflavin, thiamine and a vitamin C plus E combination product.

L25 L26 L27 L28 O FILE MEDLINE O FILE BIOSIS O FILE EMBASE 1 FILE HCAPLUS

TOTAL FOR ALL FILES L29 1 L8 AND (DASCH J?/AU OR RILEY M?/AU)

L29 ANSWER 1 OF 1
ACCESSION NUMBER:
DOCUMENT NUMBER:
137:29972
Modification of the sustained-release profile of a drug by a biccompatible polymer and a bisphosphonate Dasch, James R.; Riley, N. Cary I.
Alkermee Controlled Therapeutics, Inc., USA PCT Int. Appl., 49 pp.
CODENT TYPE:
LANGINGE:
DOCUMENT TYPE:
LANGINGE:
PAHILY ACC. NUM. COUNT:
PATENT INFORMATION:

									APPLICATION NO.									
								WO 2002-US8440										
		W:	AE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	ΒY,	BZ,	CA	CH,	CN.
			co,	CR,	Cυ,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI.	GB,	GD	GE.	GH,
			GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚĒ,	KG,	KP,	KR,	KZ,	LC	LK,	LR,
			LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX.	MZ,	NO,	NZ	, OM,	PH,
			PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	TJ,	TM,	TN,	ŤR	TT.	TZ,
			UA,	UG,	UZ,	VN,	ΥU,	ZA,	ZM,	ZW,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD	, RU,	TJ,
TM																		
		RW:															, BE,	
																	, SE,	
			BF,	BJ,	CP,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN	, TD,	TG
	US 2003004100				A1	A1 20030102				US 2001-835001				20010413				
									0506									
																	20020	
	EP :																20020	
		R:											LI,	LU,	NL,	SĒ	, мс,	PT,
									MK,									
																	20020	
	US :	2003	2361	92		A1		2003	1225	1	US 2	003-	4001	62			20030	325
																	20040	
PRIO	RITY	APP	LN.	INFO	. :					1	US 2	001-	8350	01		Α :	20010	413
										,	WO 2	002-	US84	40		w :	20020	319
										1	US 2	003-	4001	62		A 1 :	20030	325

The present invention relates to a method for the sustained release in vivo of a biol. active agent comprising administering to a subject in

of treatment an effective amount of a sustained-release composition

of treatment an effective amount of a sective agent incorporated therein, and a bisphosphonate wherein the bisphosphonate compound is present in an amount sufficient to modify the release profile of the biol. active agent from the sustained-release composition Pharmaceutical compns. suitable

from the sustained-release composition Pharmaceutical compns. suitable use in the method of the invention are also disclosed. 2809-21-4 5748-88-1 \$6:376-36-1, Alendronate 89987-06-4, Tiludronate 115436-72-1 RL: THU Therapeutic use); BIOL (Biological study); USES (Uses) (modification of sustained-release profile of drug by biocompatible polymer and bisphosphonate) 2809-21-4 HCAPLUS Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)

L29 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued)

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT:

FORMAT

L29 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN (Continued)

57246-88-1 HCAPLUS
Phosphonic acid, (3-amino-1-hydroxypropylidene)bis-, disodium salt (9CI)
(CA INDEX NAME)

●2 Na

66376-36-1 HCAPLUS
Phosphonic acid, (4-amino-1-hydroxybutylidene)bis- {9CI} (CA INDEX NAME)

89987-06-4 RCAPLUS
Phosphonic acid, [[(4-chlorophenyl)thio]methylene]bis- (9CI) (CA INDEX NAME)

115436-72-1 HCAPLUS
Phosphonic acid, [1-hydroxy-2-(3-pyridinyl)ethylidene]bia-, monosodium
alt (9C1) (CA INDEX NAME)

```
=> s ((sustain? or timed or control?)(4a)releas? or prolonged action) and (polymer?
carrier? or poly lactide co glycolide or polygalactin 910 or glycolic lactic acid
polyester)
          125 FILE MEDLINE
L30
          162 FILE BIOSIS
L31
           188 FILE EMBASE
L32
          522 FILE HCAPLUS
L33
TOTAL FOR ALL FILES
          997 ((SUSTAIN? OR TIMED OR CONTROL?)(4A) RELEAS? OR PROLONGED ACTION
               ) AND (POLYMER? CARRIER? OR POLY LACTIDE CO GLYCOLIDE OR POLYGAL
               ACTIN 910 OR GLYCOLIC LACTIC ACID POLYESTER)
=> s 134 and (compos? or pharm?)
            66 FILE MEDLINE
L36
           154 FILE BIOSIS
L37
          171 FILE EMBASE
L38
          273 FILE HCAPLUS
TOTAL FOR ALL FILES
          664 L34 AND (COMPOS? OR PHARM?)
=> s 139 and (dasch j?/au or riley m?/au)
             O FILE MEDLINE
L41
             O FILE BIOSIS
L42
             1 FILE EMBASE
             O FILE HCAPLUS
L43
TOTAL FOR ALL FILES
             1 L39 AND (DASCH J?/AU OR RILEY M?/AU)
=> s 144 not 129
             O FILE MEDLINE
L45
             0 FILE BIOSIS
L46
             1 FILE EMBASE
L47
L48
             0 FILE HCAPLUS
TOTAL FOR ALL FILES
             1 L44 NOT L29
L49
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L49 ANSWER 1 OF 1 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
197241159 EMBASE
197241159
In-vivo and in-vitro degradation of poly(

AUTHOR:

EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.
97241159 EMBASE
1997241159
In-vivo and in-vitro degradation of poly(
lactide-co-glycolide)
microspheres.
Tracy M.A.; Zhang Y.; Verdon S.L.; Dong N.; Riley
M.G.I.
H.A. Tracy, Alkermes Inc, Cambridge, MA 02139, United
States
Proceedings of the Controlled Release Society, (1997) -/24
(623-624).
Refo: 3
ISSN: 1022-0178 CODEN: 58GMAH
United States
Journal; Article
030 Pharmacology
037 Drug Literature Index
039 Pharmacy
English CORPORATE SOURCE:

SOURCE:

COUNTRY: DOCUMENT TYPE: FILE SEGMENT:

LANGUAGE:

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=> s (dasch j?/au and riley m?/au)
           O FILE MEDLINE
L50
            1 FILE BIOSIS
L51
            O FILE EMBASE
L52
            1 FILE HCAPLUS
L53
TOTAL FOR ALL FILES
            2 (DASCH J?/AU AND RILEY M?/AU)
=> s 154 not (129 or 144)
            O FILE MEDLINE
            1 FILE BIOSIS
L56
L57
            O FILE EMBASE
            0 FILE HCAPLUS
L58
TOTAL FOR ALL FILES
            1 L54 NOT (L29 OR L44)
=> d ibib abs
```

L59 ANSWER 1 OF 1 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN ACCESSION NUMBER: 2003:265994 BIOSIS PREV200300265994 Method of modifying the release profile of sustained release compositions.

LS9 ANSWER 1 OF 1 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN ACCESSION NUMBER: 2003:265994 BIOSIS PREV200300265994 BIOSIS PREV200300265991 TITLE: Method of modifying the release profile of sustained release compositions.

AUTHOR(S): Dasch, James R. [[nventor, Reprint Author]; Biley, M. Gary I. [inventor]

CORPORATE SOURCE: Needham, MA, USA ASSIGNEE: Alkermes Controlled Therapeutics, Inc.

PATENT INFORMATION: US 6555702 May 06, 2003

SOURCE: Official Gazette of the United States Patent and Trademark office Patents, (May 6 2003) Vol. 1270, No. 1. http://www.uspico.gov/web/menu/patdate.html. e-file. ISSN: 0098-1131 (ISSN print).

DOCUMENT TYPE: Patent LANGUAGE: English ENTRY DATE: Entered STN: 4 Jun 2003

Last Updated on STN: 4 Jun 2003

AB The present invention relates to a method for the sustained release in vivo of a biologically active agent comprising administering to a subject in need of treatment an effective amount of a sustained release composition comprising a biocompatible polymer having the biologically active agent incorporated therein, and a bisphosphonate wherein the bisphosphonate compound is present in an amount sufficient to modify the release profile of the biologically active agent incorporated therein, and a bisphosphonate wherein the release composition. Pharmaceutical compositions suitable for use in the method of the invention are also disclosed.

=> fil caol;s 13
COST IN U.S. DOLLARS

ENTRY

TOTAL SESSION

FULL ESTIMATED COST

387.29

SINCE FILE

551.84

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE ENTRY

TOTAL SESSION

CA SUBSCRIBER PRICE

-35.04

3.04 -35.04

FILE 'CAOLD' ENTERED AT 14:28:02 ON 25 MAR 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1907-1966 FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

L60 10 L3

=> d 1-10

L60 ANSWER 1 OF 10 CAOLD COPYRIGHT 2005 ACS ON STN
AN CA65:203755 CAOLD
TI detergent-impregnated gloves
PA Trimex
DT Patent
II washing products
PA Procter & Gamble Co.
DT Patent
PATENT NO. KIND DATE
PATENT NO. KIND DATE
PATENT NO. STORY DATE
PATENT NO. 13502-12-0 13502-28-8
13513-23-0 13523-88-9

L60 ANSWER 2 OF 10 CAOLD COPYRIGHT 2005 ACS on STN
AN CA65:13968g CAOLD
TI detergent additives (synergistic)
PA Procter 4 Gamble Co.
OT PATENT NO. KIND DATE
PI NL 6413483
T1 2281-11-0 2666-14-0 2809-21-4 7425-12-9
13419-36-8

L60 ANSWER 8 OF 10 CAOLD COPYRIGHT 2005 ACS on STN
AN CAG3:9991e CAOLD
1 1-hydroxy-1, 1-alkyldiphosphonic acids
AU
Germscheid, Hans G.
Henkel & Cie G.m.b.H.
DT Patent
PATENT NO. KIND DATE

PI DE 1194852
NL 6410204
NL 6410204
L60 ANSWER 9 OF 10 CAOLD COPYRIGHT 2005 ACS on STN
CAG3:4092f CAOLD
dyagn of human har
A Oreal S. A.
Fatent
TI reduction of damage from bleaching and dyeing of hair
TA Teachemic Chemisch-Therapeutische G.m.b.H.
PATENT NO. KIND DATE

PI DE 1174453
PI GB 99060
BE 644474
DE 1202441
FR 1393604
US 3202579
IT ***2809-21-4 4712-06-5 4712-07-6 4712-08-7 31182-41-9

IT ***2809-21-4 4712-06-5 4712-07-6 4712-08-7 31182-41-9

L60 ANSWER 6 OF 10 CAOLD COPYRIGHT 2005 ACS on STN
CA64:8237h CAOLD
T1 phosphonic acids or their salts
PA Henkel & Cie G.m.b.H.
DT Pacent
PATENT NO. KIND DATE
PR 1412865
BE 653066
GB 1032378
IT 2809-21-4 3794-83-0 4712-07-6 7101-46-4***

L60 ANSWER 7 OF 10 CAOLD COPYRIGHT 2005 ACS on STN
AN CA64:3862c CAOLD
T1 chlorine-forming agents with sequestering properties
PATENT NO. EIND DATE
PATENT NO. EIND DATE
PATENT NO. EIND DATE
PI H6 6407365
BE 649996
FR 1403179
GB 1033966
IF 87-90-1 1984-15-2 2244-21-5 2782-57-2 2893-78-9 6145-29-6145-31-9 6145-32-0

L60 ANSWER 10 OF 10 CAOLD COPYRIGHT 2005 ACS ON STN
AN CA62:4225g CAOLD
TI detergency composition
AD Diehl, Francis L.
DT Patent
TI detergents
PA Procter & Gamble Co.
DT Patent
PATENT NO. KIND DATE
PATENT NO. KIND DATE
BE 651634
BE 655988
FR 1439824
IT 2281-11-0 2666-14-0

=> log y COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION		
FULL ESTIMATED COST	6.83	558.67		
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) CA SUBSCRIBER PRICE	SINCE FILE ENTRY 0.00	TOTAL SESSION -35.04		

STN INTERNATIONAL LOGOFF AT 14:28:17 ON 25 MAR 2005